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WM. EBER & SON'S

...CATALOGUE...

OF HIGH-CLASS

# SEEDS, BULBS



1902

1902

## Garden Implements, Etc.

QUINCY, ILLINOIS.

READ THIS CATALOGUE.

You Will Find it Attractive and Useful.

ALSO SEE INDEX

## TO THE PUBLIC.

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**N**OTHING for which money is expended makes so large a return as SEEDS, if they are GOOD. And NOTHING causes greater vexation than WORTHLESS seeds. If you wish to avoid disappointment, don't rely upon seeds peddled over the country and sold on commission. The chances are against their vegetation.

The steady growing volume of our business for a GREAT MANY YEARS is the best proof of the reliability of our seeds, which we select and procure WITHOUT REGARD TO COST ; and, indeed, we can not afford to sell poor seed, as our customers' interests are identical with our own. We wish, and expect, to supply them with seeds every coming year, and the only way to accomplish this end is to offer pure and reliable stock.

All progressive farmers and gardeners are well aware that changing seed is of the greatest importance and value, while others planting their own seed continually, year after year, will see their crops run down to a minimum.

We feel assured in saying that the seeds we offer can not be surpassed by ANY, and will give entire satisfaction if proper treatment is bestowed. It sometimes happens that seeds of unquestionably good qualities fail to germinate or grow to perfection for want of timely and proper treatment or unfavorable weather, and it must be distinctly understood that We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

**WM. EBER & SON.**



# To Our Friends and Customers.

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IN PRESENTING our compliments with this new edition of our Descriptive Catalogue to our numerous friends and patrons, it is with feeling of pleasure that we express our thanks for the liberal patronage bestowed upon us for many years, and would assure them, as well as all others who may favor us with their orders, that we shall at all times endeavor to gain and maintain their entire satisfaction.

We would also respectfully suggest to give the **Reading Matter** of this Catalogue a careful perusal, rather than look at the pictures, as we are giving the purchaser the value in seed, and not in pictures as many do. It is interesting and useful reading for the **Farmer**, for the **Gardener** and **Amateur of Flowers**. Should you, however, not be interested, please hand it to your neighbor, who may be. No doubt, most any one will find something of interest.

In the rush of our busy season, it sometimes may happen that mistakes will occur. In such a case please report immediately and we will cheerfully correct them.

## HOW TO ORDER.

With every Catalogue we always send an order sheet and addressed envelope. This order sheet will be found much more convenient than an ordinary sheet of paper, and by using the addressed envelope there will be no danger of your remittances being miscarried.

Always be careful to have your Name, Post Office, County and State written distinctly. Numbers of times we receive orders with the money enclosed, without any address, and then the sender wonders why he does not get his goods or an answer.

## SEEDS BY MAIL AND EXPRESS.

We will forward a **General Order of Flower and Garden Seeds**, either by mail or express, **Free to Destination**, at Catalogue Prices—excepting **only** orders for **Beans, Peas** and **Corn**, on which the postage is eight cents per pound.

## TO DEALERS AND COUNTRY MERCHANTS

We would offer special inducements—particularly on **Paper Seeds**. As we do not send out any Seeds on commission, you are sure to get fresh stock every time and have the satisfaction of selling the best and freshest to your customers, while this cannot be said of Commission Seeds, which are often of doubtful quality, besides you derive better profits and larger sales in handling our Seeds. There is no need of keeping over any stock, as you can buy in quantities as you need them. Correspondence invited.

## MARKET GARDENERS

And other large growers of Vegetables we supply at the most reasonable terms, and are especially invited to call for prices. We do not send out any agents, believing that our Catalogue, carefully read, is of more and lasting benefit than unwarranted talk.

From unknown parties remittances should be sent in with order, either in the form of Money Order, Bank Draft, Express Order or Registered Letter.

## ...DIRECTIONS...

FOR THE

# Cultivation of Vegetables.

**T**O SECURE a good crop of vegetables three things at least are necessary, viz: A SUITABLE SOIL, PURE SEED, and CLEAN CULTURE, to which may be added, as equally necessary, an abundant supply of good BARN-YARD MANURE, supplemented, when this runs short, by artificial fertilizers. The exposure for a vegetable garden should be preferably south or southeast or nearly so. The soil should be naturally rich and friable, a sandy loam being always the best. If the soil be stiff, it should be gradually mellowed by the free use of barn-yard manure, or, if convenient, by the addition of sand. If wet, or inclined to hold an excess of moisture, it should be under-drained, preferably by tile; but if possible a location should be selected that is naturally dry and free from surface water.

A dark colored soil, or one supplied with a goodly portion of decayed vegetable matter, will produce the earliest crops. If the soil is shallow, it should be deepened gradually by plowing or spading an inch or two deeper each year, and not all at once by trenching or sub-soiling, unless manure and money be both abundant. A sandy soil may be greatly improved by adding more or less vegetable mould from the woods. To produce the best and uniform results, the vegetable garden should have at least one foot of good rich soil. The roots of large trees should not be allowed to encroach any part of the garden, though large trees, especially evergreens, sufficiently far off, afford a valuable protection from the north and west.

Mark the garden off into squares, or beds of convenient size, to facilitate the practice of rotation of crops, which is an important matter. As a rule, never let the same crop or kind of vegetable occupy the same bed or spot two years in succession. Potatoes and a few other things may form an exception to this rule, but it is nevertheless better to keep up the rotation. Every year these beds must be warmed up by a liberal coat of manure, which should be thoroughly mixed with the soil. Grow everything in drills or straight lines, not even excepting corn and potatoes. Larger crops from a given surface are grown in this way, and cultivation becomes simple and comparatively easy. The space between the drills and other special information are given in the body of this Catalogue. The least distance is named in order to economize space. It might be increased in some cases with advantage. The ground should be frequently hoed to kill the weeds and keep the soil mellow; and the proper time to hoe is just when the weeds appear above the ground. Briefly, the proper way to kill weeds is NEVER TO LET THEM GROW. If the weeding be done at the time suggested, it can be effectually and quickly done by the use of a sharp-toothed steel rake.

**The Freshest Seeds** of some kinds often fail from unseasonable and improper management in sowing and other circumstances affecting their vegetation. When sown too early or too deep, while the ground is cold, wet and heavy, they are apt to rot; when sown too shallow, in dry time and late in the season, there may not be sufficient moisture to sprout them, or they may be dried up by dry winds or a hot sun after they have germinated. Sometimes insects destroy them before or immediately after their appearance above ground, so that the complaints occasionally made by the inexperienced are not always to be attributed to the quality of seed. Instructions in this book are ample, and when they are read and followed up, ninety-nine out of one hundred have no reason to blame the seed.

**Soaking Seed in Warm Water** twenty-four to forty-eight hours, and then rolling in plaster or ashes, will very much hasten the germination and growth of hard and dry seeds. It will give the plants a start of the weeds, and lessen a good deal the labor of cultivation. Very hard shelled seeds should be treated with boiling water and left to cool.

**Sowing Seeds.**—Warmth and moisture are essential, and seclusion from light is favorable to germination. The first care in sowing seeds should be to choose suitable ground, the proper season and state of the earth, and then to place them at such depth beneath the surface as will insure the requisite supply of moisture. In general, all seeds should be covered more or less according to their size and the advance of the season; late sowing requiring to be covered the deepest. The smallest seeds should be sown very shallow, in fine earth, and rolled or beaten firmly with the back of the spade.

**Thinning Out.**—Next to errors of too deep or too shallow sowing of seeds are the errors of thick seeding without corresponding thinning and not let the plants get too large.

It is far better to thin out a row of Beets, Lettuce, Carrots or Parsnips so as to obtain good specimens at proper distances, than miserable abortions crowding together at half an inch apart, as is often seen in the gardens of the inexperienced. So clearly evident is the advantage of thinning out that we will not waste space dwelling upon it, other than to give the following table of suggestive distance to which vegetables in the private garden should be thinned:

- 1 inch—Radishes.
- 2 inches—Beans, Carrots, Peas, Salsify, Corn Salad.
- 3 inches—Leeks.
- 4 inches—Beets, Kale, Onions, Parsnips, Spinach, Turnips.
- 5 inches—Endive, Parsley.
- 6 inches—Lettuce, Okra.



Corn.

**SWEET CORN.**

(Fifteen cents per quart extra if sent by mail.)

**CULTURE.**—Plant in hills three feet apart each way and five or six kernels in a hill. Hoe often and draw soil up to the stem; break off side shoots. Make the ground rich with well rotted manure. Sown in drills, a greater yield from a given surface will be obtained. By sowing successive lots and properly selected varieties, the supply of Sweet Corn can be kept up until hard frosts kill the plants.

	Ready for market in	qt.	pk.
<b>Metropolitan</b> —Large, handsome ears, of fine quality, very early.....	60 days	20c	\$1.00
<b>Thorburn's Melrose</b> —(See page 4).....	60 "	20c	1.00
<b>Extra Early Cory</b> .....	55 "	15c	.85
<b>Early Main</b> .....	60 "	15c	.85
<b>Early Minnesota</b> .....	65 "	15c	.85
<b>Early Crosby</b> .....	65 "	15c	.85
<b>Old Colony</b> .....	70 "	15c	.85
<b>Perry's Hybrid</b> .....	70 "	15c	.85
<b>Improved Evergreen</b> .....	70 "	15c	.85
<b>Large Egyptian</b> .....	85 "	15c	.85
<b>Country Gentleman</b> .....	85 "	15c	.85
<b>Black Mexican</b> —Sweetest of all.....	85 "	20c	1.00
<b>Extra Early Adams</b> —This is no true Sweet Corn, but it is the earliest of all corn 50 "	50 "	15c	.85

**PEAS.—Erbjen.**

(Fifteen cents per quart extra if sent by mail.)



Light, dry soil, not over rich, suits the pea. Plant as early as the ground can be worked and again every two weeks in succession throughout the season. Plant in single or double rows, from four to six feet apart, according to height, about an inch apart in the row, and four inches deep. In the summer plant four to five inches deep, hoe often; tall sorts can be made to bear more freely by pinching in.

	Height feet.	qt.	pk.
<b>Thorburn's Extra Early Market</b> —Best strain, extra early, prolific and well-filled pods, in sealed bags.....	2½	30c	\$1.50
<b>Landreth's Extra Early</b> .....	2½	30c	1.50
<b>Alaska</b> —One of the earliest Blue Peas.....	2½	30c	1.50
<b>Rural New Yorker</b> —Very early, prolific and uniform in ripening.....	2½	25c	1.25
<b>First and Best</b> .....	2½	25c	1.25

**MEDIUM EARLY PEAS.**

	Height feet.	qt.	pk.
<b>Gradus</b> —Also called <i>Prosperity Pea</i> ; the largest, earliest and best wrinkled Pea out. (See Novelties, page 5).....	3	50c	3.25
<b>Everbearing</b> —Long pods and large peas; <i>sow thin</i> .....	2½	30c	
<b>Pride of the Market</b> —Very large pods, green peas; a good market pea; <i>sow thin</i> .....	2	30c	1.75
<b>Yorkshire Hero</b> —A spreading variety; very productive; <i>sow thin</i> .....	2½	30c	
<b>Heroine</b> .....	2½	30c	
<b>Champion of England</b> —A standard variety; <i>sow thick</i> .....	4	25c	
<b>Shropshire Hero</b> .....	2½	30c	
<b>Melting Sugar</b> —One of the best edible pod sorts.....	4	50c	

**FOR LATER CROP.**

<b>Stratagem</b> —Very large pods and peas; of excellent flavor, 2	30c	1.75
<b>John Bull</b> —Delicious pea for main crop.....	2½	30c
<b>Telephone</b> —Enormous pods, first-class quality.....	4	30c 1.75
<b>White Marrowfat</b> —A standard sort.....	4	20c 1.00
<b>Blackeyed Marrowfat</b> —Hardy and prolific.....	3½	20c 1.00

**DWARF VARIETIES.**

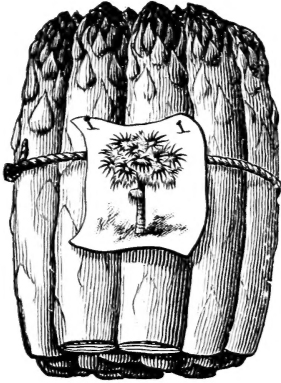
<b>Nott's Excelsior</b> —(See page 5) 1	30c	2.00
<b>American Wonder</b> —Early and productive.....	1	30c 2.00
<b>McLean's Little Gem</b> —Early straight pods.....	1	30c 1.75
<b>Premium Gem</b> —Extra Early.. 1	30c	1.75

Last year's Pea crop has been very short, consequently prices rule high.

**ASPARAGUS.—Spargel.**

(Eight ounces to 100 yards of row.)

**CULTURE.**—Sow the seed thinly in rows one foot apart in April or May and keep down all weeds. To secure strong, healthy plants, thin out the seedlings to three or four inches in the



Palmetto Asparagus.

rows, saving only the strongest. The one-year-old plants should be set out in spring in a rich sandy loam, dug eighteen inches deep, into which has been worked plenty of well rotted manure. If a stiff clay soil is all that can be had, add plenty of sand and sift-

coal ashes to loosen it up and see that it is well underdrained. In planting for private use, set out in beds five feet wide, three rows in a bed, the outer being each one foot from the edge, and allow twelve inches in the rows; set the plants at least six inches below the surface. If set out in autumn, top-dress with six inches of manure. For market on a large scale, set out 4 by 1½ feet.

Every fall a good dressing of coarse manure should be applied after the tops have been cut, and in the spring forked in. Never cut too closely. The roots need the benefit of some foliage during the year, else they will weaken and die. A slight dressing of salt in spring is beneficial and keeps weeds down.

	oz.	lb.
<b>Colossal</b> —The most approved standard sort .....	10c	\$0 50
<b>Palmetto</b> —Very desirable bright green.....	10c	75
<b>Columbian Mammoth White</b> .....	10c	85
<b>Barr's Mammoth</b> .....	10c	85
<b>Asparagus Roots</b> —Two years old per 100, 75c; per 1000..		5 00

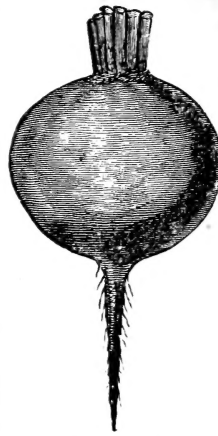
**BEETS.—Rothé Rüben.**

(Five ounces seed to 100 yards of row.)



Turnip Beet.

Sow in April for early, for a succession till last of June; about middle of May for general crop. The soil should be deep, rich, light loam, dry rather than moist. Rows should be 18 inches apart, and the plants thinned out to 8 inches in the rows. If you wish to raise sweet and tender beets, stir the soil often and kill the weeds.



Electric Beet.

**Crosby's Imp'd** oz. 1b.  
**Egyptian**—  
(see page 4)...10c 75c

**Columbian**—  
New (see Novelties, page 4)...10c 75c

**Electric**—(See Novelties, p.4) 10c 75c

**Eclipse Turnip**  
Early, dark, blood red.... 10c 75c

**Egyptian Turnip**  
—Best for early forcing.....10c 65c

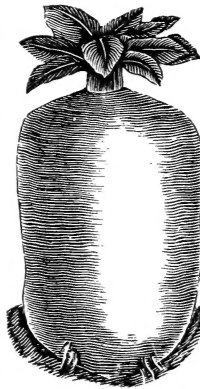
**Edmand's Blood Turnip**—Best strain, fine shape, dark flesh and best for general crop..... 10c 65c

**Detroit**—Dark red (see page 4).....10c 75c

**MANGEL-WURZEL.—Runkelrüben**

(Six pounds to an acre.)

**CULTURE.**—As all mangels require a deep soil in order to grow well, **plow and subsoil** if possible in autumn, at least a foot to eighteen inches, and apply plenty of rich manure.



Golden Tankard Beet.

The attention of farmers to the growing of roots for feeding stock has increased rapidly, judging from the increased sales of our selected seeds. The wonderful results are plainly shown in the health and general condition of the animals and the increased yield of milk in cows.

The seed should be sown in April and May in drills two feet apart, and afterwards thinned out to stand one foot apart in the rows. Keep well cultivated and you will have an abundant crop of roots for winter use. Through the winter keep them from freezing. If convenient two sowings should be made.

	oz.	lb.
<b>Mammoth Mangel, or Norbiton Red,</b>	5c	40c
<b>Golden Tankard</b> —Superior for dairy and stock feeding .....	5c	40c

**Giant Feeding Sugar**—This variety is quite an improvement on the above sorts; richer in sugar, better form, more prolific, and feeders pronounce it the most satisfactory feeding Beet—oz., 5c; 1b., 40c.

**SUGAR BEETS.**

	lb.
<b>Improved Klein Wanzleben</b> .....	40c
<b>Improved Vilmorin</b> .....	40c
<b>White Imperial</b> —Best for poor soil .....	40c

**CABBAGE.—Kraut, Kopfskraut.**

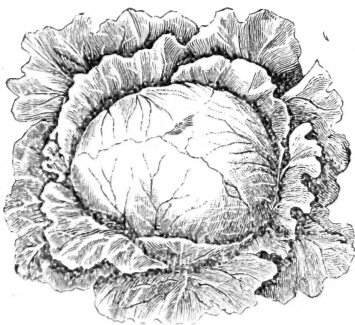
(Sow half an ounce in hot-bed 6 by 4 feet.)



Jersey Wakefield Cabbage.

Sow early sorts in hot-beds during February and March, and transplant middle of April. Sow later crop in April and May. They should be sown in shallow drills, four to six inches apart. When the plants are six inches high transplant into *richly* manured ground; the early kinds two feet apart and later kinds three feet. The ground must be deeply loosened and worked thoroughly to grow large and good heads. Hoe often to kill weeds, and draw some earth upon the stems. If troubled by the cabbage flea, sprinkle the plants with Slug Shot, soot, wood ashes, lime or Scotch snuff. Either of the above will drive them away. One ounce of saltpetre, dissolved in twelve quarts of water, will destroy the green worm. Set plants deep in the ground. Use sprayer, see page 3.

Our Cabbage Seed is of the best Long Island growth. There is no better stock grown, and should not be confounded with cheap Imported Stock.



Drumhead Cabbage.

	oz.	¼ lb.
<b>Extra Early Spring</b> —Small, flat head.....	30c	
<b>Early Jersey Wakefield</b> —Finest American, select stock, grown almost to the exclusion of all others by market gardeners....	25c	\$0 90
<b>Charleston Wakefield</b> —Very large and finest strain of the above ....	30c	1 00
<b>Stein's Early Flat Dutch</b> —(See Novelties, page 5) .....	25c	85
<b>Early Winningstadt</b> .....	20c	50
<b>Fottler's Improved Brunswick</b> ..	25c	85

**Improved Early Summer, or Excelsior**—The finest best second early ..... 25c \$0 85

**Selected All Seasons, or Succession Cabbage**—One of the best second early or late, growing to a large size quickly and sure to head. 25c 85

**Surehead**—Fine quality, large head 25c 80

**LATE.**

**Thorburn's Colossal**—(see p. 5) . . . 35c

**St. Louis Market**—A fine late sort (see page 5). . . . . 35c 1 25

**Autumn King, or Worldbeater**.. 30c 85

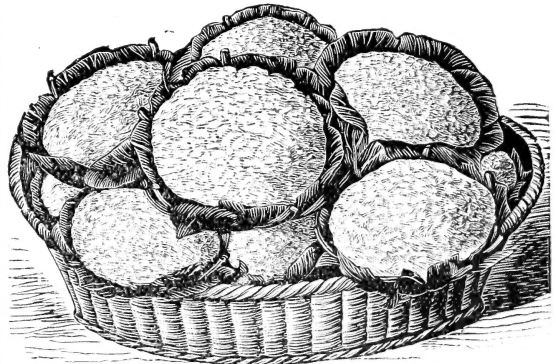
**Large Flat Dutch**—American.... 20c 65

**Large Flat Drumhead**—American. 20c 65

**Danish Ball-Head**—(See Novelties, page 5) . . . . . 25c 75

**Improved Drumhead Savoy**..... 30c

**Improved Red Stone Head**... . 35c

**CAULIFLOWER.—Blumentohl.**

Gilt Edge Cauliflower.

**CULTURE.**—This is the same as for Cabbage, except that extra manure and plenty of water will pay upon this. If the soil be dry, water frequently; and if the plants could have a heavy mulch of hay or straw, it would keep the soil moist, and the plants would not suffer from drought. The early kinds should be strong enough to plant out not later than the middle of April; the late kind may be planted out the same time as for cabbage. To destroy the Cauliflower maggot, it is recommended to take one ounce of sulphuret of potassium and dissolve in one gallon of water. Heat the liquid to about 100 degrees, take a large spoon, or something that will hold a 100th part of a gallon, and pour the liquid against the stalk of the plant just above the ground.

**Henderson's Early Snow Ball**—One of the best for forcing or open ground, sure header ..... 20c 75c

**Thorburn's Gilt Edge**—Large, heavy sort, undoubtedly the best and surest of all sorts now in cultivation..... 20c 75c

*The above two kinds are the best and most successful for this climate.*

**SLUG SHOT** is sure death to Green Worm on Cabbage and Cauliflower.



**CARROTS.—Möhren.**

Carrots.

Sow as early as the ground can be worked, or, for late crops, until latter part of July. For main crop sow from the middle of May to the first of July. Thin out early crop to five inches in the row, main crop six to seven inches, apart. Hoe often and deeply between rows. Soil light, sandy loam, richly manured and deeply dug. Sow at the rate of two pounds to the acre. *Deep culture secures quick growth and clean root, while otherwise roots become wormy and ill-shaped.*

**Guerande or Oxheart**—Half long, oz.  $\frac{1}{4}$  lb. stump rooted. Thick, short, bright orange color and of excellent flavor when young. .... 10c 25c

**Early Scarlet Horn**—Very thick roots. .... 10c 25c

**Half-Long Pointed**—A very popular strain; productive, early and valuable standard sort. .... 10c 25c

**Chanteney**—Half long, stump rooted; fine for garden and field. .... 10c 25c

**Half-Long, Stump Rooted, Nantes Strain**—A popular market sort. .... 10c 25c

**Half-Long Danvers**—Thick, of good quality, exceedingly productive. .... 10c 25c

**Long Orange**—For late planting and best for stock. .... 10c 25c

**CELERY.—Sellerie.**

(One ounce to one hundred feet of row.)



Golden Heart Celery.

Sow seeds in hot-bed, or in a box in the house, or in open ground as soon as can be worked. *If seeds are sown in bed care should be taken to keep the surface moist so that the ground does not bake, otherwise the seed will not come up.*

When the plants are two to four inches high make trenches a foot deep and four to five feet apart.

Enrich thoroughly the bottom of the trenches and transplant to six or eight inches in the rows, and as the plants grow haul fine earth up about them to blanch

their stems. Care should be taken not to let the earth get into the heart of the plant. Never trench while wet from dew or other causes, otherwise it has a tendency to rot and rust badly. Our Celery Seeds are all of American growth.

**Golden Self-Blanching**—A fine, solid variety, similar to the White Plume, except that it is a golden yellow, where the Plume is white. .... 40c

**Giant Pascal**—Larger and later than the above and of best quality. .... 25c \$2 00

**Perfection Heartwell**—The largest and finest of the winter varieties, either for family or market gardeners; the heart is golden yellow, and is of superior quality. .... 30c 2.50

**Golden Heart**—The best for market gardeners. .... 25c 2 25

**Boston Market**—Medium, solid, tender and crisp, Boston favorite. .... 25c

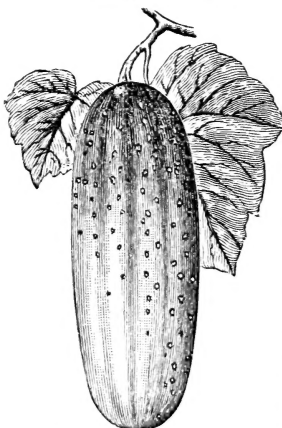
**White Plume**—Requires but little blanching. .... 30c 2 50

**Fin de Siecle**—(See Novelties, p.4) .... 35c

**Celeriac, or Turnip - Rooted Celery**—Very large and superior quality. .... 25c

**CUCUMBERS.—Gurken.**

(One pound per acre for pickles.)



White Spine Cucumber.

In February and March plant seeds in hot-beds, and when night frosts are gone, plant out in rich and newly dug ground, in hills and ridges, from four to five feet apart. Stop the leading shoots continually as the fruit shows; or plant the seed in open ground as soon as the weather becomes settled and warm. Use a shovelful of warm manure to each hill, and cover with an inch or two of

earth; scatter eight or ten seeds in a hill, cover half an inch and press it down. Hoe often, and when out of danger from insects, thin the plants to four in a hill. For pickles plant from June to July. To destroy all insects use KEROSENE SOAP. (See page 3).

**The New Cumberland**—Best pickling cucumber known. .... 20c

**Thorburn's New Everbearing**—Small, very early, enormously productive, bears until frost. .... 15c 75c

**Early Cluster**—Fruit, small, early and prolific. .... 10c 65c

**Early Frame, or Short Green**—Prolific and a fine pickler. .... 10c 65c

**Early White Spine**—Best for early market, and also good for pickles. .... 10c 65c

**Chicago, or Westerfield**—One of the best pickling varieties. .... 10c 65c

**Long Green Giant Perra**—Best for table use. .... 10c 65c

**Green Polific Pickling**—One of the best for pickling, dark green, very productive and uniform small size. .... 10c 65c

**Thorburn Commercial Pickle**—A new and valuable sort of the White Spine type, retaining its dark green color long after pickling. .... 10c 75c

**Japanese Climbing**. .... 25c

**Arlington**—(See page 4). .... 10c 85c

**Livingston's Evergreen**. .... 10c 1 00



**CORN SALAD.—Feld-Salat.**

Sow during August, early September, or early spring, in drills, a quarter of an inch deep and six inches apart. If dry weather, tread in the seed lightly. Keep down the weeds with hoe. Just before the first winter sets in, cover thinly with clean straw.

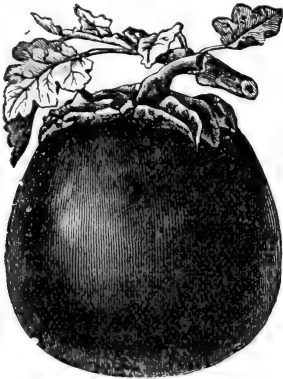
**Corn Salad**.....oz. 10c, 1b. 75c

**CRESS.—Gartnkresse.**

Sow in drills six inches apart; cover very slightly.....oz.

**Fine Double Curled**—Desirable for salad and garnishing.....15c

**True Watercress**—Pleasant and pungent taste; sow near a living spring.....50c

**EGG PLANT.—Eierpflanze.**

New York Improved Egg Plant.

**CULTURE.**—Sow in *well heated* hot-beds, very early in spring, and transplant when two inches high into a second bed or into small pots. If that is not done, thin to four inches apart. Do not plant out till the weather becomes perfectly settled and warm. Cool nights or wet weather will check them. Keep some back in frames

for second planting, in case of weather changing unexpectedly. Keep plants watered for a few days, if the sun is hot when put out. Set out plants three feet by two.

**Improved New York Purple**—The best; large, oval in shape and of deep purple color; grown very much more extensively than any other sort, both for private use and market.....oz. 30c

**ENDIVE.—Bindsalat.**

From May to July sow thin and cover slightly. When up, thin out to eight inches apart, and give a good watering afterwards when dry. When leaves are eight inches long, blanch them by gathering the leaves in the hand and tying them together near the top with yarn or bast; this must be done when quite dry, or they will rot. Excluding light will blanch them.

**Green Curled**—Very hardy; best.....oz. 1/4lb.  
adapted for winter use.....15c 50c

**White Curled**—A splendid early sort. 15c 50c

**New Self-Blanching**.....20c

**KALE, or BORECOLE.**

**Krauskohl.**



Curled Scotch Kale.

(Sow one ounce to 100 feet in the row, and four pounds to the acre.)

Requires the same treatment as cabbage. It gets most delicious after being touched by frost.

oz. 1/4lb.

**Improved Siberian, or Dwarf German Greens**—Best and hardiest; for fall sowing; beautifully curled and crimped; cover with straw; per lb 85c.....10c 25c

**Dwarf Green Scotch Curled**—This sort is still more curled, but not as hardy as the Siberian; per lb. 85c..10c 25c

**Tall Green Scotch Curled**.....15c 40c

**Brown Dutch**.....15c 40c

**KOHL-RABI.**

**Kohlrabi.**



Vienna Kohl-Rabi.

(One ounce to 100 feet in row.)

May be sown from April to July, and the plants afterwards treated the same as cabbage, only be careful not to hoe too much soil around the stem. Plant out in rows ten inches apart.

oz. 1/4lb.

**Early Vienna**—Flesh White and Tender.....25c 75c

**LEEK.—Poree,lauch.**

(Two ounces to 100 feet in the row.)

Sow very early in the spring, in drills six inches apart and one inch deep; thin out to one inch apart. When seven inches high, plant out in rows eight inches apart and as deep as possible, so as not to cover the young center leaves. Water thoroughly, if dry weather when planted out; draw earth up to them as they grow; requires very rich soil.

**Large Rouen**—A very large growing sort.....oz. 20c

**Large Musselburg**—For winter use...oz. 20c

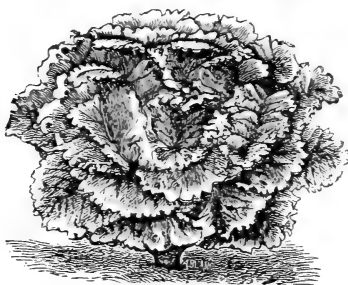
**MUSTARD.—Senf.**

Sow thickly during April and early May in shallow drills.

oz. 1b.

**White English**.....5c 50c

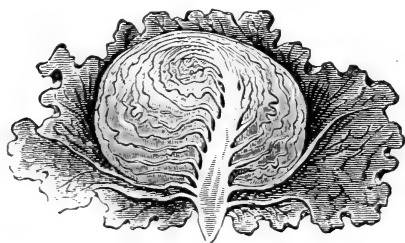
**Black**.....5c 40c

**LETTUCE.—Salat.**

Curled Lettuce.

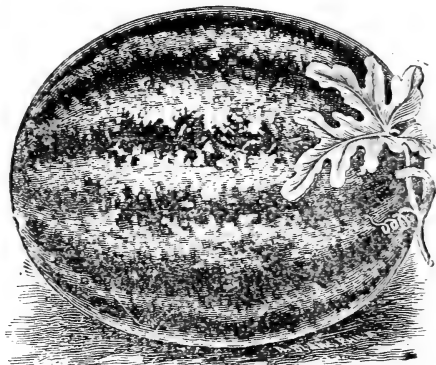
Sow in frames in February and March, and in the open ground as soon as the ground can be worked, and thin out or transplant in rows nine inches to a foot apart. Sow every three weeks in succession during spring and summer. In September and October sow the winter varieties for early spring use. Lettuce requires good ground and moisture in abundance; hoe carefully and keep weeds down. Often Lettuce under glass is affected by green flies—three or four applications of Aphis Punk smoke will kill them, especially if the plants are not too large. If under glass sow some tobacco dust with the seed.

	oz.	¼lb.
<b>Thorburn's Maximum</b> —(See page 5).....	30c	
<b>St. Louis Market</b> —(See Novelties, page 5).....	35c	
<b>Glass House</b> —For forcing under glass .....	25c	
<b>New Boston Head</b> —Especially adapted for greenhouse culture (See page 5). .....	25c	
<b>Early Golden Stone</b> —Best head lettuce for forcing.....	15c	40c
<b>Early Simpson's</b> —White seed, good for forcing and open ground..	15c	40c
<b>Early Simpson's Improved</b> —Black seed; the very best for forcing.....	15c	40c



Hanson Lettuce.

<b>Market Gardener's Private Stock</b> A selected strain, solid large heads, resisting the sun for a long time before shooting up; good for early or late .....	25c	75c
<b>Trilanon Self-Closing Cos</b> —Finest of all cos; stands the warm weather well. Do not fail to try it. ....	25c	60c
<b>Hanson's</b> —Heads very large, solid, tender and crisp.....	15c	40c
<b>Buttercup</b> —Beautiful yellow, solid heads; good for forcing .....	15c	40c

**MELONS—WATER.****Wassermelonen.**

Kolb's Gem Water Melon.

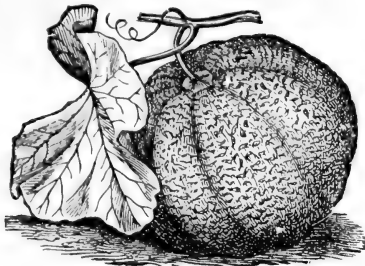
**CULTURE.**—Form large and well-drained hills of rich earth, avoiding the use of fresh manure in such a way as to cause the plant to dry out under the hot sun. On this hill plant the seed as soon as the ground is warm and dry, and carefully protect the young plants from insects, and hasten their growth by the use of liquid manure.

	oz.	1b.
<b>Phinney's Early</b> —Very early, flesh deep red and of superior quality....	10c	55c
<b>Mountain Sweet</b> —Oblong, dark green, flesh red and solid .....	10c	55c
<b>Kolb's Gem</b> —Largest, most productive and best shipping melon in cultivation .....	10c	55c
<b>Gipsy, or Rattlesnake</b> —Oblong striped, flesh scarlet and of good quality .....	10c	55c
<b>Peerless</b> —The best for private garden .....	10c	55c
<b>Seminole</b> —Large, moderately early, very productive and of delicious flavor .....	10c	55c
<b>Monte Cristo or Kleckley's Sweet</b> —(See Novelties, p. 5).....	10c	75c
<b>Dixie</b> —Choice, very large, solid red flesh and early.....	10c	55c
<b>Florida Favorite</b> —Improved Rattlesnake, superior strain .....	10c	55c
<b>Duke Jones</b> —Early, extra large, fine flavor; it is a favorite for shipping and home use....	10c	55c
<b>Jordan's Gray Monarch</b> —Largest grown; crimson flesh; late .....	10c	50c
<b>Jones' Jumbo</b> —Large, good shipper, medium early. (See page 5). ....	10c	55c
<b>Sweet Heart</b> —Very large; light green skin; fine quality.....	10c	55c

**SLUG SHOT** and spraying with Permcol or Kerosene Soap destroys Bugs and Lice on Cucumbers, Melons and Squash with certainty.

**MELONS—MUSK.****Buckermelon.**

(One ounce to seventy hills; two pounds for one acre.)



Surprise Musk-Melon.

Plant late in the spring, in hills five feet apart ten seeds in a hill; and thin out to four plants in a hill; draw soil up around the stems and top their points to make them branch when they begin to run. A warm, light, but rich soil, suits them best. Dust a little soot or recently burned wood ashes on the plants when up.

	oz.	lb.
<b>Rocky Ford</b> —(See page 5).....	15c	\$1 25
<b>Paul Rose</b> —(See page 5).....	10c	1 00
<b>Melrose</b> —(See page 5).....	10c	75
<b>Tip Top</b> —(See page 5).....	10c	75
<b>Long Island Beauty</b> —The earliest and finest in quality, green flesh.....	10c	1 00
<b>Hackensack</b> —Extra early, large, round, green flesh, productive and of good quality.....	10c	75
<b>Montreal</b> —Large, round, very thick green flesh.....	10c	75
<b>Chicago Market Nutmeg</b> —Large, round, green flesh and fine quality.....	10c	75
<b>Bay View</b> —Large size, oblong, green flesh.....	10c	75
<b>Emerald Gem</b> —Small, extra early, smooth ribbed, dark green skin and orange flesh, quality first-class.....	10c	75
<b>Improved Christiana</b> —Round, flesh, dark rich yellow, very thick and of delicious flavor; one of the best.....	10c	75
<b>Princess</b> —Round, heavily netted, salmon flesh, flavor sweet and delicious beyond description; early and good size.....	10c	75
<b>Osage</b> —Light green skin, coconut shaped, salmon flesh, very fine.....	10c	75
<b>Surprise</b> —Early, with rich orange flesh, of delicious flavor.....	10c	75
<b>Banana</b> —Long, slender, salmon flesh and good quality.....	10c	75

Use INSECT EXTERMINATOR, it saves your Melons. See page 3.

**PARSNIPS.—Pajinat.**

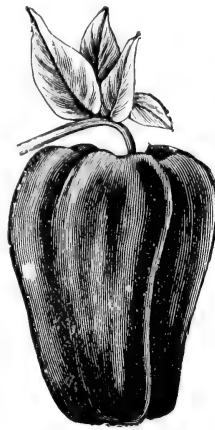
(Five to six pounds to the acre.)

Sow during spring in drills one inch deep, and when three inches high, thin out from six to eight inches apart in the row; hoe often; soil should be rich and deep. May be left in the ground over winter and dug in the spring, as required. Even fresh seed is sometimes hard to germinate. Have soil well firmed after sowing.

	oz.	lb.
<b>Abbott's</b> —Of excellent quality, smooth and quite large.....	10c	65
<b>Long Sugar</b> —Standard variety.....	10c	65
<b>Hollow Crown</b> —Best for general use.....	10c	65

**PEPPER.****Pfeffer.**

Sow in hot-beds in March, or in open ground in a seed-bed the latter part of April, in light warm ground; when three inches high, transplant to eighteen inches apart each way; hoe frequently. Seed is slow to germinate, and requires a good, warm hot-bed.



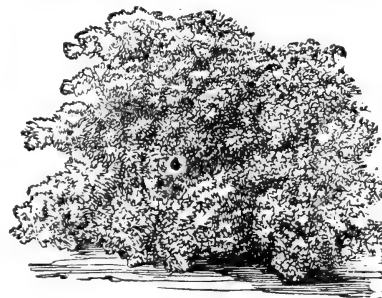
Ruby King Pepper.

	oz.
<b>Mountain Sweet</b> —Large, mild flavor, used for pickling.....	25c
<b>Ruby King</b> —Mild and one of the best, 4 to 6 inches long and 3 to 4 inches thick.....	25c
<b>Large Bell, or Bull Nose</b> —An early variety; rind, thick and fleshy.....	25c
<b>Giant Emperor</b> —Scarlet, large and thick.....	25c
<b>Golden Dawn</b> —Yellow, mild flavor, fine for stuffing.....	25c
<b>Cayenne</b> —The variety of commerce, pods small, cone-shaped.....	25c
<b>Coral Gem</b> —A wonderfully productive and handsome pepper; it is covered with small, bright, coral red fruits, which are splendid seasoning.....	25c
<b>Celestial</b> —A Chinese pepper; at first fruit is yellow, and after fully matured becomes a deep scarlet.....	25c

**OKRA—Gombo.**

Sow late in spring after the ground has become warm, in drills three feet apart, in rich manured land. Thin out from six to nine inches.

	oz.	lb.
<b>Dwarf White</b> —Early and productive.....	10c	75c
<b>New White Density</b> —Very tender; long pods.....	10c	75c

**PARSLEY—Petersilie.**

Moss Curled Parsley.

Soak the seed a few hours in warm water. Sow in spring in drills one foot apart. To preserve in winter, transplant in a light cellar or cold frame.

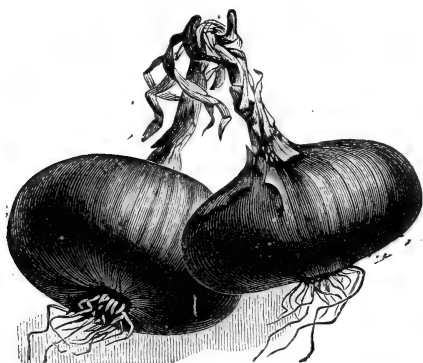
	oz.	¼lb.
<b>Moss Curled</b> —Fine for garnishing.....	10c	30c
<b>Hamburg, or Turnip Rooted</b> —The roots used for flavoring soup.....	10c	35c
<b>Plain Parsley</b> .....	10c	20c

## ONIONS—Zwiebeln.

**Choice American-Grown Seed, to Raise Large Bulbs.**

**All Our Onion Seed is of Last Year's Eastern Growth, and Should Not be Confounded with Cheap and Old Seed.**

(Two ounces to 100 feet in row; four pounds to the acre)



Extra Early Red Onions.

### HOW TO RAISE THEM.

Any land that will raise a good crop of corn, except stiff clay or gravelly soil, is suitable for onions. Select a sandy loam with a light mixture of clay; it is easier to work and produces good crops. Land that has been worked two years previously in hoed crops, and kept entirely free from weeds, would be in desirable condition to commence with. Gather off any refuse that may be on it, and in October apply about fifty cart loads of manure to an acre. The manure should have been twice turned during the previous summer, and well fermented, to destroy any weed seeds that may be in it. Spread the manure evenly on the land, and plow it under, taking a narrow furrow, which will mix the manure more thoroughly with the soil. This will be all the preparation needed in the fall. As early in the spring as the ground can be worked without injury, give it a thorough dragging, first with an iron drag, then with a brush drag, after which rake the entire piece with steel hand rakes. Stretch your line perfectly straight in making your rows.

The sowing and growing of this valuable and remunerative crop used to be an extremely tedious and laborious business, but since the introduction of the Hand Drills and Cultivators—of which we have the latest and most improved patterns—it is comparatively easy to raise a large crop at moderate expense. After the seed is up it is of great importance to keep the weeds down; if that is not done at an early stage, when weeds appear, the crop will surely be a failure. Procure good seed at whatever price, for without it all your labor will be lost. It requires three to four pounds of seed to the acre. If large onions are wanted sow thin.

When the tops die and fall, the crop should be pulled and spread evenly on the ground to dry; in about a week after being pulled, turn, or rather stir them with a wooden rake, and when the tops have become perfectly dry, cut them off one-half inch from the bulb. When the crop is designed for market, it should not be exposed to the weather longer than necessary to cure the crop, as the onions will lose their bright color by exposure.

	oz.	¼ lb.	lb.
<b>Silver King</b> —(See page 5)....	20c	60c	\$2.00
<b>Large White Portugal</b> —Mild and delicious flavor, flat....	20c	75c	2.50
<b>Large White Globe</b> —Southport strain.....	20c	75c	2.50
<b>Excelsior White Pickling</b> —Best for pickling.....	20c	65c	2.00
<b>White Silver Skin</b> .....	20c	75c	2.50
<b>Large Red Wethersfield</b> —A good keeper.....	10c	35c	1.00
<b>Large Red Globe</b> —Southport strain, a good keeper.....	15c	35c	1.15
<b>Yellow Danvers</b> —Standard sort; a good keeper; oval....	10c	35c	1.00
<b>Large Yellow Globe</b> —Southport extra fine strain.....	15c	35c	1.15
<b>Yellow Globe Spanish, or Prize Taker</b> —(See page 5).....	20c	50c	1.75

**Above Varieties are All New Crop and Reliable.**



### ONION SETS.

Red Bottom Onion Sets raised from seed.	Market Price
Yellow " " " " " "	
White " " " " " "	
Red Top Onions.....	
Shallots .....	
Garlic.....	

### NEW MODE OF ONION CULTURE.

Of late Eastern onion growers employed a new way of raising large crops of onions with success. This mode is to sow the seed carefully, from March 1st to 15, in warm beds, in drills one inch deep and three inches between the rows. In about four weeks the plants will be about the size of a lead pencil and ready to be set out in well prepared soil, as fully described above, in straight lines from three to four inches apart and twelve inches between the rows. Have the tops and roots somewhat shortened by cutting so you get a stiff plant. In this way plants are easier to handle and stand more erect in the row.

It looks as if this were a great deal of work, but it is not nearly as much as to keep the weeds out of a patch of sown onions, besides gaining from four to five weeks earlier ripening of the product, which is of the greatest importance, as it is a well known fact that the earlier the onions are planted the better is the result. Prize Taker is particularly adapted for this manner of cultivation.

## POTATO.—Kartoffel.

**CULTURE.**—In order to have the best success in growing Potatoes, and to secure a healthy, vigorous growth, and a crop free from rot, it is necessary to plant as early as the ground can be made ready. Select a rich soil, and plant in rows three feet apart, and the sets one foot in the rows. To kill the young weeds, run a light, steel-tooth harrow over the field lengthwise of the rows. This will allow the crop to get the start of the weeds, besides breaking up all lumps and leveling the ground ready for the cultivator. If wood ashes and plaster can be procured, sow a good dressing over the field after the potatoes are up. If a *very early* crop is desired, it will be necessary to *sprout* the potatoes before planting. Cut the potatoes into pieces of any size desirable, and place in a warm, light room from four to six weeks before required for planting in the open ground. During this time shoots will start out strong and vigorous, so that, as soon as planted, they will send out roots and grow much more rapidly than those treated in the ordinary way. Another method is to place the sets in a hot-bed two weeks before they are wanted, and then lift carefully and set out on fresh horse-dung, so that the heat will cause them to start at once. If the Colorado potato-beetle makes its appearance, the vines must be dusted with Paris Green mixed with about eighty parts of plaster; or, what is better, mix the Paris Green in water, one small tablespoonful to a pail, and apply with a small broom, brush or sprinkler. Take care to stir the mixture often, or else the Paris Green will settle to the bottom. Two or three applications during the season will usually suffice to clear off all the beetles.

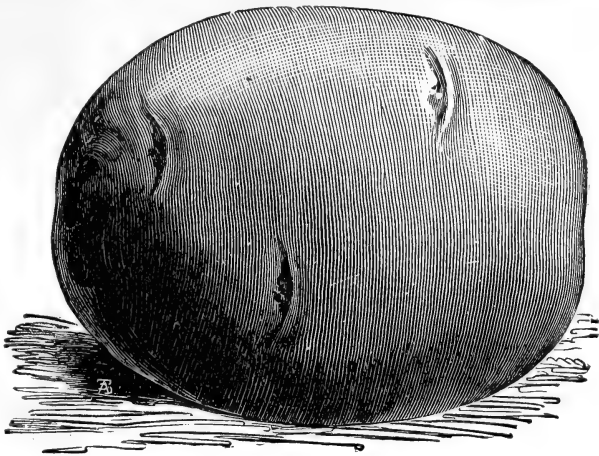
### Directions for Treating Potatoes to Prevent Scab.

Dissolve corrosive sublimate (bi-chloride of mercury) in water at the rate of one ounce to eight gallons of water (1 to 5000), and soak the seed potatoes from sixty to ninety minutes. Dry them before cutting.

### EXTRA EARLY OHIO.

This earliest of all varieties justly belongs at the head of the list; because no other variety will mature as early. Some very good early sorts will give eatable size potatoes about as early, but their tops will be green for days after Early Ohios have died.

Our stock is of the purest strain, raised in the most northern part of Dakota, and all those who bought of us for the last several years had the best results.



POTATO.

### The New Bliss Triumph.

This variety is quite popular; tubers are of moderate size; color beautiful red. One of the best sorts for early market. Some growers claim these are the earliest of all.

Carman No. 1,

Rural New Yorker No. 2,

Carman No. 3,

The Thorburn, Beauty of Hebron,  
Irish Cobbler, Early Northern,

Early Rose,

And Many Other Good Sorts  
at Market Prices.

## SWEET POTATOES.

Of which we make a SPECIALTY and are supplying a large territory. The most popular varieties are the

Yellow and Red Nansemond,  
Yellow and Red Jersey,  
Red Bermuda,  
White Southern Queen and  
Vineless.

### Directions Furnished HOW TO RAISE PLANTS.

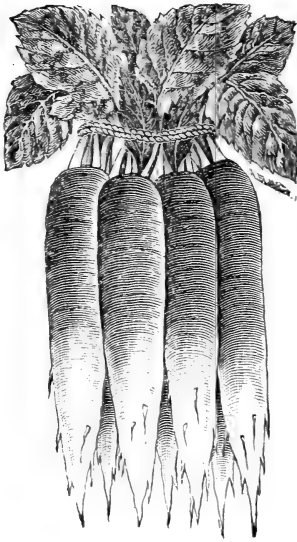
We furnish Plants of all the above varieties of our own raising. Send for prices.

## PUMPKIN.—Feldfürbiß.

Kentucky Field—Large round, salmon colored; especially for stock feeding.	50.25
Large Cheese—Flat, best for family use	50
Improved Cushaw—Flesh solid and thick, fine grained, excellent for pies and does well planting among corn	50
Cushaw—Crook neck, fine grained and sweet	50
Quaker Pie—Finest late variety	
Mammoth Tours—Growing to immense size	1 00

**RADISH.—Rettig.**

(Six pounds to an acre.)



Chartier.

Sow in a sheltered spot as early as the ground can be worked, and every two weeks until summer; then commence planting the summer varieties. The winter sorts should be sown in August. A light rich soil suits best. It should be borne in mind that Radishes must have plenty of room, otherwise they will be tough and wormy. A slight sprinkling of salt is beneficial.

<b>New Triumph</b> —(See page 5).....	paper,	10c
<b>New White Icicle</b> —(See page 5) ..	paper, 10c oz. 1b.	
<b>Early Scarlet Turnip</b> —French....	10c	\$0 75
<b>French Forcing Deep Scarlet</b> — Crisp and beautiful; matures in 20 days .....	15c	85
<b>French White Tail</b> .....	10c	75
<b>Scarlet Gem White Tip</b> —(New) Forcing, matures in about 20 days,	15c	85
<b>Early White Turnip, or Box</b> — French, pure white and sweet....	10c	75
<b>Early Carmine Turnip</b> —French, for forcing, and best for open ground,	10c	85
<b>Yellow or Golden Summer Turnip</b> —Popular as a market gardener's sort.....	10c	75
<b>New Round Scarlet China</b> —(See Novelties, page 5).....	15c	1 25
<b>Early French Breakfast</b> .....	10c	65
<b>Early Long Scarlet</b> —Short top; the standard variety.....	10c	65
<b>Wood's Early Frame</b> —Half long, red.....	10c	75
<b>Delicacy</b> —White, Half Long. ....	10c	85
<b>White Strassburg Summer</b> —Half long.....	10c	75
<b>Chartier</b> —Long scarlet, white tipped	10c	75
<b>White Stuttgart</b> —Large, round, white sort.....	10c	75
*All above varieties are best suited for Market Gardeners.		
<b>China Rose</b> —For fall and winter...	10c	1 00
<b>Black Spanish</b> —For winter..	10c	1 00
<b>California Mammoth</b> .....	10c	1 00

**RHUBARB, or PIE-PLANT.**

Linneus.....oz. 25c

Every spring we have on hand a good supply of  
Rhubarb Roots at reasonable prices.

**SALSIFY.—Faserwurzel.**

Sow early in spring in drills, one foot apart, one inch deep, and thin out to four inches in the row; keep clean and cultivate the same as parsnips. Being left in the ground during the winter will not injure them.

<b>Salsify, or Oyster Plant</b> —French, 15c	40c
<b>Mammoth Sandwich Island</b> —A large and a much more superior variety than the above .....	20c 50c
<b>New Thorburn Improved</b> —Thick rooted.....	25c 75c

**SPINACH.—Spinat.**

(Twelve pounds sow an acre.)



Spinach.

Sow half an inch deep and a foot between the rows; thin out to eight inches; as soon as frost is out of ground hoe frequently to prevent the plants from running to seed. For winter crop, sow latter part of August or September. Lay straw between the rows at approach of winter, and very thinly over the leaves.

<b>Round Leaf</b> —Generally preferred for spring sowing.....	5c 20c
<b>Prickly</b> —This is the hardiest variety; best for fall sowing .....	5c 20c
<b>Bloomsdale, Savoy-Leaved</b> —A pro- ductive variety, quite hardy.....	5c 20c
<b>Long Standing</b> —The longest standing before running to seed, and conse- quently one of the best varieties....	5c 20c
<b>Victoria</b> —(See page 4).....	5c 20c

**SQUASH.—Speisefürbiße.**

Plant in hills in the same manner and at the same time as melons, the bush four feet, and the running kind six to eight feet apart.

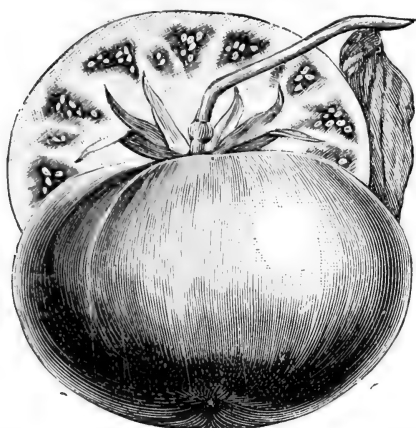
Squash cannot be planted with any degree of safety in the Middle or Northern States before the middle of May, as they are extremely tender and highly sensitive to the action of bad weather.

<b>White Bush, or Scallop Summer</b> ..	10c 75c
<b>Improved Large Summer Crook- neck</b> .....	10c 75c
<b>Boston Marrow</b> —Oval, bright or- ange; flesh yellow and fine.....	10c 75c
<b>Essex Hybrid</b> —This variety is one of the finest grained and sweetest of the squash family..	10c 75c
<b>Hubbard</b> —A general favorite for late use, and of superior quality .....	10c \$1.00
<b>Sibley's, or Pike's Peak</b> —One of the finest winter varieties; thick bright orange flesh.....	10c 75c
<b>Ford Hook</b> —Early, excellent keeper through the winter and of finest quality.....	10c 75c



**TOMATOES.—Liebesäpfel.**

(One-half ounce in hot-bed 6x4 feet.)



Buckeye State.

Our Tomato Seeds are unequaled for their purity and fine quality; are all saved from choice, selected fruit.

Sow in hot-beds in February and March, and transplant in open ground when the weather becomes warm and settled, or sow in open ground in May, and transplant when plants are six inches high, four feet distant from each other; soil should be made light and rich. By transplanting plants into pots fruit may be had several weeks earlier, and by pinching off the small tips will hasten the ripening considerably. The plants, before setting out, ought to be hardened until the stalk gets to be red. Should the plants be long and slim put them in slanting. Old manure should be used for soil.

- |   |     |     |
|---|-----|-----|
| <b>Dwarf Champion</b> —Distinct foliage, grows compact and upright, fruits early and is quite popular among gardeners.....          | oz. | 25c |
| <b>Atlantic Prize</b> .....   |     | 25c |
| <b>Buckeye State</b> —Purple, very large, solid   |     | 25c |
| <b>Thorburn's New York</b> .....  |     | 50c |
| <b>Acme</b> —Early, smooth, purple and one of the finest.....   |     | 25c |
| <b>Livingston's Beauty</b> —Purple, regular in form, good shipper.....  |     | 25c |
| <b>Livingston's Favorite</b> —Solid and large   |     | 25c |
| <b>Livingston's Perfection</b> —Smooth, productive.....   |     | 25c |
| <b>Honor Bright</b> —Fruit bright red, finest flavor, solid and especial good shipper..   |     | 25c |
| <b>The Stone</b> —One of the best introduced for years. It is very large, perfectly smooth and of a fine, bright scarlet color..... |     | 25c |
| <b>Ponderosa</b> —The largest variety in cultivation.....   |     | 60c |
| <b>Long Keeper</b> —Bright red, early, very productive and the longest keeper of all tomatoes.....                                  |     | 30c |
| <b>Matchless</b> —Bright red, solid; immense yielder; one of the best for canning.....  |     | 25c |
| <b>Yellow Plum and Pear-Shaped</b> —Used for preserves.....   |     | 30c |

**TURNIPS.—Weiße Rüben.**

Purple Top Milan Turnip.

For early use sow as early as the ground can be worked. Rutabaga and other kinds for winter, sow in July and August. Much larger crops are obtained, particularly of the Rutabagas, by cultivating in drills 18 inches apart.

- |   |     |        |
|---|-----|--------|
|   | oz. | 1lb.   |
| <b>Early Dutch</b> —A good variety for first crops.....                   | 10c | \$0 75 |
| <b>Extra Early White Milan</b> —A new and valuable variety.....           | 15c | 1 00   |
| <b>Extra Early Purple Top Milan</b> —One of the earliest varieties.....   | 15c | 1 00   |
| <b>Purple Top Strap-Leaf</b> —One of the best varieties for general use.. | 10c | 65     |
| <b>Red Top Globe-Shaped</b> —A standard sort for market.....              | 10c | 65     |
| <b>Improved Rutabaga</b> —Good for table or stock; hardy and prolific...  | 10c | 75     |
| <b>Snowball</b> —Small and of rapid growth.....                           | 10c | 75     |
| <b>Rutabaga, Thorburn Family</b> —Fine grained and best quality.....      | 10c | 75     |
| <b>Seven Top</b> —For greens.....   | 10c | 75     |

**HERBS.—Kräuter.**

Herbs are available for culinary and medicinal purposes. They are easily grown, and when preserved by drying are ready for use at any season of the year. Sow in spring, as soon as the weather is warm, and thin out as the plants grow up; or, the seed may be sown under glass and the young plants afterwards transplanted to their respective beds. The perennial kinds should occasionally be divided and transplanted in spring. Those marked with a \* are perennial, and when once obtained in the garden may be preserved for years.

- |                    |                     |
|--------------------|---------------------|
| <b>Anise.</b>      | <b>Majoram.*</b>    |
| <b>Balm.*</b>      | <b>Marshmellow.</b> |
| <b>Basil.</b>      | <b>Rosemary.*</b>   |
| <b>Borage.</b>     | <b>Rue.*</b>        |
| <b>Caraway.*</b>   | <b>Saffron.</b>     |
| <b>Coriander.</b>  | <b>Sage.</b>        |
| <b>Dill.</b>       | <b>Savory.</b>      |
| <b>Fennel.*</b>    | <b>Tansy.*</b>      |
| <b>Hysop.</b>      | <b>Tarragon.</b>    |
| <b>Horehound.*</b> | <b>Thyme.</b>       |
| <b>Lavender.*</b>  |                     |

PRICE PER PAPER, FIVE CENTS.

**Miscellaneous Seeds.**

PRICES ON APPLICATION.

- Beans**—California Tree and Navy Beans.  
**Bird Seed**—Hemp and Canary.  
**Buckwheat.**  
**Cotton Seed.**  
**Flax Seed.**  
**Tobacco Seed**—Havana and other sorts.

## SELECTED FARM SEEDS.

To our Farmer Friends we would particularly impress the fact that our Field Seeds are thoroughly cleaned by new and improved machinery. Our old customers are well aware of that and always give us the preference. They know that pure and clean Seeds give satisfaction to both buyer and seller.

On account of Fluctuation of the Market Values, Prices cannot be given in Grass Seeds, Clover, Grain, etc.

### GRASS SEEDS.

#### PRICES ON APPLICATION.

The best means of improving meadows, pastures and lawns is to sow a sufficient variety of grass seeds, and we trust our customers will give some of the kinds a trial in connection with Timothy, which by many is believed to be about the only grass to be sown for hay.

**Timothy**—Decidedly the best grass for hay. Sow one peck per acre.

**Orchard Grass**—Valuable for grass and hay; grows in all dry and shady places; sow from 15 to 20 pounds per acre.

**Red Top**—A valuable permanent grass for meadows and pastures; grows in almost any soil, moist or dry; sow 10 lbs. per acre, clean seed.

**Kentucky Blue-Grass**—Best pasturage grass for our soil and climate. It is most valuable for lawns, yards, etc., combined with some White Clover. For hay, sow 1 bushel, and for lawn, 3 bushels of clean seed per acre.



RYE.

#### English Rye Grass (*Lilium Perenne*)

—Is the staple Grass of Great Britain, entering largely into the composition of many of the richest meadows and pastures. Its natural adaptation to almost all cultivated soils, and its early maturity are the reasons it

has hitherto been so extensively cultivated in preference to many other equally nutritious sorts. Forty pounds to the acre.

**Italian Rye Grass** (*Lolium Italicum*)—One of the most valuable grasses in Europe, being equally suited to all climates. In England is considered the best known grass to cut green for soiling, affording repeated large and nutritious crops. We recommend it here for use in pasture mixtures. Forty pounds to the acre.

#### **Agrostis Canina** (*Rhode Island Bent Grass*)

—Resembles Red Top (*A vulgaris*, described below), but is of dwarfer habit, with shorter and narrower leaves. It makes a beautiful, close, fine turf, and is one of the very best grasses for lawns. It adapts itself to almost any soil, rich and moist, or dry, sandy and sterile. It is a native of Europe, but has been cultivated in our eastern states for many years, being valuable for permanent pastures. Of late years we have been unable to obtain true and pure seeds of it here, the meadows from which it is saved having run largely into the freer seeding Red Top. We now import it from Europe, where it has been more carefully cultivated. Fifty pounds of seed to the acre is recommended for lawns. Height, 1 to 2 feet. (12 pounds to the bushel.) Per lb., 30 cts.

#### **Bromus Inermis** (*Awnless or Smooth Bromegrass*)

—An erect perennial, 3 to 5 feet high, native of Hungary, where it is considered one of the best hay grasses—yielding a good return in the arid and silicious soil. The nutritive quality of its hay, however, is much inferior to that of our standard native sorts, so that we should recommend it only for dry, arid soils, where the better and more delicate grasses would not grow. It has been found to do well in the semi-arid regions of the west and northwest on account of its remarkable drouth resisting powers, while its extreme hardiness recommends it for the colder sections of Canada. It is strongly stoloniferous, its creeping rootstalks spreading rapidly under ground and giving out new plants. It is on this account undesirable for temporary meadows, being difficult to eradicate when once established. Sow 35 or 40 pounds to the acre. Per lb., 20 cts.



Bromus Inermis.

#### **Tall Meadow Oat Grass** (*Avena Elatior*)

—Most valuable for pastures on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle early and late. Fifty pounds to the acre. Thirteen pounds to the bushel.

**Hard Fescue** (*Festuca Duriuscula*)—Not very productive, but it is of a very fine quality, and thrives well in dry situations, where many other grasses would fail, thus making it a very desirable pasture variety. Thirty pounds to the acre.

## CLOVER SEED.

**Red Clover**—Will succeed in any soil; sow 6 to 8 lbs. per acre.

**Mammoth, or Sapling Clover**—Is used mostly to plow under for fertilizing; sow 6 to 8 lbs. per acre.

**White Dutch Clover**—Usually sown for cow and sheep pasture; also very fine for lawns. Sow 5 to 6 lbs. per acre.

**Alfalfa, or Lucerne Clover**—It lasts from eight to ten years, as the roots penetrate from ten to fifteen feet in the ground. It requires a deep, porous soil, and the ground must be rolling to enable the water to pass off readily, for wet underground is fatal to the plant. The second year it may be cut two or three times, but the stand will not yet be dense. In the third year, however, it will be in its full vigor. Alfalfa may also be sown with oats. 15 lbs. per acre.

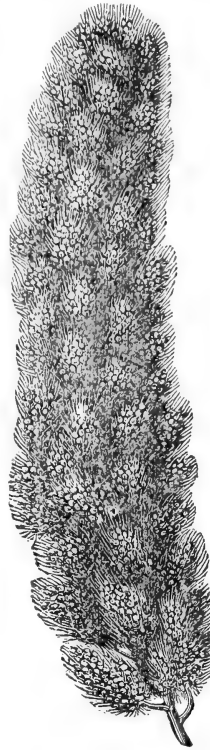
**Alsike, or Swedish Clover**—Perfectly hardy, does not heave in winter or spring from frost; stands drouth well, and is in many respects superior to the common Red Clover. It affords a large return of hay; is excellent for soiling and unsurpassed for the honey bee. When the plant is once established, it will remain for many years in full vigor. It is at its best in a moist situation and alluvial bottom soil. It certainly would pay any farmer to try it. Sow 5 to 6 lbs to the acre.

**Crimson Clover** (*Trifolium Incarnatum*)—Is an annual, and if allowed to mature to cut for hay or seed, never start again, but when sown early in the fall, it will make a *good growth* and can be *pastured* without harm during the fall and winter and still make a good crop of *hay* or *seed* at the usual time. It is a very rank grower, some stools counting as many as 120 to 140 blossoms from one seed. It grows to the height of 20 to 24 inches, roots deep, even in poor soil, from 4 to 5 feet. It will grow and make a heavy crop of hay or seed on land so poor that the common clover would do but little. It grows late in the fall, early in the spring and in warm spells in winter, when Red Clover will not think of starting. The quantity of seed is from 10 to 15 lbs. per acre.

## GRASS MIXTURES

### FOR PERMANENT PASTURES.

We also keep a mixture of permanent pasture grass, containing many sorts of fodder grasses. Some of these mature so early and others so late that from the beginning of spring until winter sets in, there is no time when one species or another is not at its best.



Millet.

**German Millet**—This variety is not so early as the common Millet, but yields much larger crops. Sow 25 lbs. per acre.

**Common Millet**—Sow from May 1st to June 20th for seed, or until the last of July for hay. Sow 25 lbs per acre.

**Hungarian**—A valuable forage plant; cultivate same as Millet. Sow 25 lbs. per acre.

**Sorghum**—Is a wonderful plant. It can be grown to provide cane for making syrup in every state of the Union. It is one of the best soiling foods which we have. It furnishes fodder of an excellent quality for live stock, such as cattle, sheep and swine, when fed in autumn or winter. It is one of the best forage plants *that we shall ever have*. The seed also can be turned to good account as food for all kinds of domestic animals kept upon the farm. It is principally best adapted for summer pasture; it strikes its roots deep, thus furnishing an abundance of succulent pasture at a time when it can not be obtained from any other source. After being cut off, it has the power of sprouting up again. The fattening or milk producing properties are of high order. It is sown right after corn-planting, or as late as middle of July for pasturage. It takes from 40 to 50 lbs.—broad cast—per acre, and if drilled, half that amount; for molasses four to six pounds.

**Kaffir Corn** (Non-Sacharine)—Has an upright habit of growth, not quite as high as sorghum, hence it is more easily handled in the sheaf. The leaves are large, long, fairly numerous, and they usually retain much of their greenness for some time after the maturing of the seed, which is in abundance. It succeeds well in ordinary corn land, and even prevailing drought does not hinder to harvest a good crop of great value for feeding and grazing. Like sorghum it is continually sprouting up again. The seed is much liked by poultry. It takes about 20 lbs. seed drilled in, which is preferable to broad casting. *This is particularly the fodder for dry seasons.*

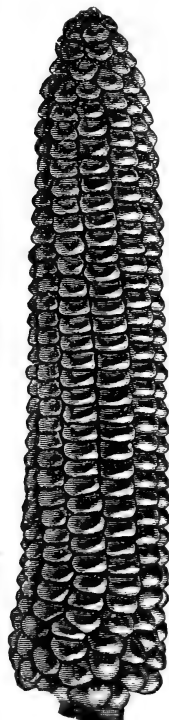
**Teosinte**—A valuable fodder plant resembling Indian Corn, 75c per lb.

## SELECTED FIELD SEED CORN.

***It is a well known fact that last year's corn crop was a failure in both quality and quantity, and in no way suitable to plant. Farmers, for this reason, are looking for sound and reliable seed. The seed corn we are offering was grown for this purpose, and is not only well selected, but pure and reliable.***

**AVERAGE PRICE ABOUT \$1.60 PER BUSHEL.**

**King of the Earliest**—The earliest Dent variety, ripening in eighty-five days, and can be grown as far north as any other variety of Dent or Flint corn. Stalks small, with broad leaves. Ears short, twelve to sixteen rows, well filled. Grain long, yellow, making an extra quality of meal.



CORN.

**Pride of the North**—One of the best Yellow Dent Corn grown, can be planted in this section as late as July 10th, and it will fully mature before frost. Ear is from seven to ten inches in length and one to two inches in diameter; grain is deep yellow in color, and of long, narrow shape, but thick; cob is very small and red. A fine corn to grow.

**Waterloo Extra Early Dent**—Originated in Nebraska, where it is noted for its great earliness; ripening in ninety days. The ears are small, but it is a great yielder, and will shell sixty pounds of corn from seventy pounds of ears every time.

**Improved Leaming Corn**—The Improved Leaming is considered the earliest Yellow Dent in cultivation. The ears are large and

handsome, with deep grain of deep orange color and small red cob. Stalks grow to medium size (not large) with few suckers, tapering gradually from root to top, producing two good ears to each stalk; husks and shells easily. One hundred and thirty-six bushels shelled corn have been grown to the acre on good corn ground. It is also adapted to a greater variety of soils than any other variety, producing unusually well on light or heavy land, where other varieties would not thrive.

**Early Butler**—This has been one of the leading early varieties for a few seasons past. We can not recommend it too highly for planting in northern latitudes or late planting. The ears are of good size, with very deep grain, of beautiful golden color and small cob. It ripens very early and cures quickly.

**Early Mastodon Corn**—An early Dent variety, originated in Ohio. The ear is very large and grain deep. It grows strong, rank, rapid, and makes the finest appearing shelled corn, being purely Dent, of two shades of white and yellow.

**Iowa Silver Mine**—The ears are very uniform in size and shape, with sixteen to twenty straight rows of deep, pure white kernels on a small, white cob. It matures in about ninety days, being about one week earlier than Champion White Pearl. *It is the heaviest yielder we know, having yielded over 200 bushels to the acre.* It is entirely distinct and will give satisfaction.

**Champion of White Pearl**—The handsomest and one of the most popular White Dent Corn; very productive; ripens in 100 days.

**Iowa Gold Mine**—It is early, ripening in about 100 days; ears are of good size and symmetrical; color a bright golden yellow; grain is very deep; cob small, and therefore dries out very quickly as soon as ripe. Extremely productive.

**Golden Beauty**—Long, handsome and extra large ears, containing twelve to sixteen rows; small cob and bright yellow grain.

**Legal Tender**—Pure yellow, uniform ears, very large and productive, deep grain and small cobs, maturing in 115 days.

**Wisconsin White Dent**—Considered by many the best Early White Dent.

**Thoroughbred White Flint**—Of spreading habit; not more than one kernel should be left to grow in a hill. Its great suckering habit, breadth of blade and smallness of stalk recommend it as the most valuable, both for fodder and ensilage. **Per bushel, \$2.50.**

## FORAGE AND MISCELLANEOUS SEEDS.

**Dwarf Essex Rape**—Is beyond all question one of the most useful fodder plants that has yet been introduced into the United States, and so it is likely to continue through all time. It is easily grown and possesses remarkable fattening properties for sheep, swine and cattle. Rape requires a rich, moist, loamy soil, such that will produce good crops of turnips, cabbage, wheat and corn, will suit the rape. Sow the seed the latter part of June. It can then resist drought, and the crop can be ready when it is most needed. It also does well when sown with oats. After the oats are cut the rape grows rapidly. It is especially adapted for a catch crop, succeeding well when for any cause other crops have failed. It is like the turnip, making its growth late in the season. It can be sown in the stubble and will make excellent pasturage in the fall. In putting in cattle or sheep, precaution should be taken to prevent them eating too much and getting bloated. After they are getting used to it there is no further danger. It may be sown from April to August. Any farmer may find a corner to sow some for experiment. Sow from four to six pounds per acre.

We sell the genuine imported article. 10 lbs., 75c; 100 lbs., \$6.00.

**The Cow-Pea**—Is proving a blessing to the agriculturists of the United States. It is grown for forage, for enriching the soil and for winter fodder. But its greatest value lies in its power, first to grow in worn and poor soil, and second, to renovate it. This recuperating power arises, first, from the ability of this plant to gather nitrogen from the air and to store it in the soil; second, from the large amount of vegetable matter which it brings to the soil in its roots and also in the vines when plowed under.

Without a doubt the cow pea will produce more forage to the acre than any other plant; and for fattening sheep and hogs it has no equal. They do not touch corn as long the Pea-vines last. They grow on land too poor for red clover, and are not affected so easily by heat or drouth. It makes poor land rich and good land more productive. If wanted for forage, plant in drills  $3\frac{1}{2}$  feet apart, or in corn after it is laid by; cut when forming peas and cure like clover; and if for fertilizer, one foot apart; turn under when in bloom. It is a sure cropper; much more so than clover. Have your soil well pulverized and sow from one to two bushels per acre about May 15th. The Whippoorwill variety is the most popular. Prices on application.

**Canada Field Peas**—Sow at the rate of one and one half bushels per acre by themselves; or sown with oats, one bushel peas and three-fourths of a bushel of oats per acre. Sowing with oats is a decided advantage as the oats help to hold the peas off the ground, enabling them to make a better growth, and as they both mature together they make a splendid feed, which cures admirably as hay or dried forage. Price, \$1.75 per bushel.

**Soja Beans**—The haulm is stiff, and the pods are produced in clusters. Thrives well in hot and dry weather. It is planted at the rate of one-half bushel to the acre, in drills  $2\frac{1}{2}$  to 3 feet apart and cultivated like corn. It is highly recommended for green fodder, and is an excellent soiling plant. It contains more protein and nitrogen than any other plant known. In point of nutritive value it is unequalled and makes, in connection with corn, as a number of our customers state, a "balanced ration" grown upon the farm, saving the farmer from paying out cash for oil meal, bran, etc. Soja Beans should unquestionably be one of the staple crops with every farmer.

One of the farmers said: "I seeded the Soja Beans in alternate rows with corn, seeded thickly for fodder late in June; cultivated both crops frequently shallow and harvested them together. They cured very nicely, put up in the shocks with corn, and I am now feeding the fodder and beans with very satisfactory results."

When sown broadcast Soja Beans should be sown at the rate of one bushel per acre. Sowing them thickly will prevent the stalk from growing too coarse and enable them to be cut and turned under to better advantage. Price per bushel, \$2.50.

**Sand Winter, or Hairy Vetches**—They are hardy and grow well on poor and sandy soil. Plants are cut before setting seed and a second good crop will follow. Per lb., 20c;

**Broom Corn**—It requires similar soil and culture as corn but should be planted later, in drills  $3\frac{1}{2}$  feet apart. Per peck, 50c.

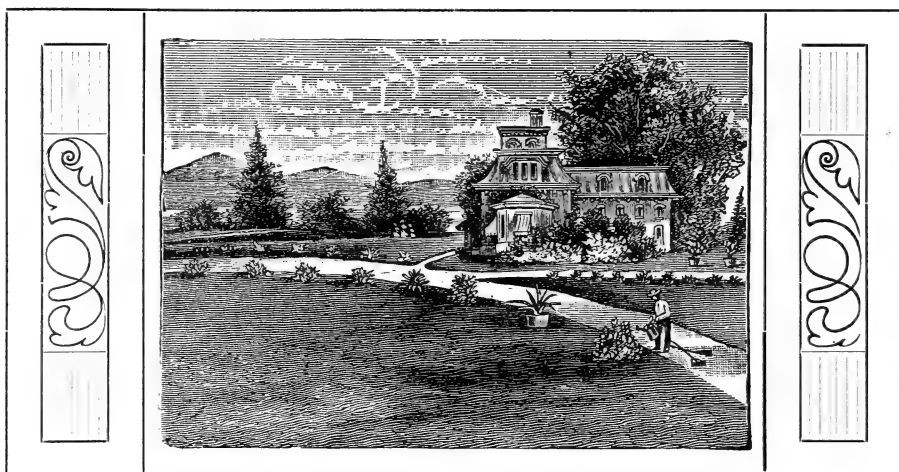
**Wild Rice**—Put the rice in coarse linen or cotton bags and sink them in water for twenty-four hours; sow in September in soft mud bottom—as much out of the current as possible. One lb., 25c; 10 lbs. \$2.00.

**Mammoth Russian Sunflower**—A large yielder and an excellent food for fowls. Per peck 40c.

## FORMATION OF LAWNS FROM SEED.

**T**HE ground should be thoroughly drained and well prepared. The soil ought not to be too rich, as a rapid growth is not wanted in the grasses of a lawn; but the surface should be as much alike in quality as possible. After sowing, the ground should be rolled, in order to press the seed firmly into the soil. The proper time to sow grass seed is from March 15 to April 15. Seed also may be sown in the fall providing it is done early enough to secure a good strong growth before winter sets in. The sowing should be done when the ground is moist, or before an expected rain; cover lightly with soil and a subsequent rolling or firming the ground with a roller or a heavy board, is always advisable. Rolling and dragging, however, should not be done when the soil is very wet.

**ROLLING.**—As soon as the frost is out of the ground in the spring, the land should be gone over with a heavy roller. Winter frosts loosen the soil, and rolling is necessary to compress it again. If grass seed is to be sown, this should be done first and the rolling immediately afterwards. Frequent rollings are recommended.



**MOWING.**—All turf-forming grasses are improved, both in vigor of root-growth and in fineness of texture, by frequent mowings. It is impossible to say just how often the grass should be mown, as that depends upon the rate at which it grows. Too close cutting should be guarded against, however, especially during the hot summer months, when the roots require some top-growth to protect them from the burning sun. A good top-growth is also necessary to protect the roots from severe winter frosts. Mowing should therefore be discontinued in time to let the grass grow pretty long before winter sets in.

### OUR LAWN GRASS

Contains, besides Bluegrass, a composition of the finest perennial or lasting grasses which will, in the shortest time possible, produce a beautiful, compact turf, enduring the summer heat and insure a rich, deep green sward throughout the season.

This mixture is absolutely free from obnoxious weeds.

**BLUEGRASS** sown alone *perfects* itself the second year after being sown.

Do not be sparing of seed. From three to five bushels to the acre, or one pound for 20x20 feet is little enough. More seed is needed on poor soil than on that which is rich.

**FOR SHADY PLACES.**—We have a special mixture for this purpose.

Dock Dandelion and Plantain, natural to the soil, spring up spontaneously; are most troublesome and should be watched and exterminated on appearance.

### OUR SPECIAL LAWN FERTILIZER

Never fails to produce a rapid and rich green growth, and is much more preferable than barnyard manure, which is the principal source of dock plantain and all sorts of obnoxious weeds. In early spring sow at the rate of ten pounds to 15x20 feet. It should be applied annually.

**Price, 10 pounds for 40c; 25 pounds for 75 cents.**





## FLOWER SEEDS.

Encouraged by the Many Flattering Testimonials From Our Customers,  
We Are Offering a Particularly Large and  
Fine Assortment of

### Choice and Reliable Flower Seeds and Bulbs

Most of Our Own Importation and Adapted to Our Climate.

NO OLD SEED OFFERED.

#### BRIEF HINTS ON SOWING AND CULTIVATING.

**T**HE GENERAL RULE for sowing flower seeds, as well as any other seeds, is to sow them at the proper depth; *and the depth at which they are sown should in every instance be governed by the size of the seed itself.* As the sprouts of small seeds are naturally small, if sown as deep as large seeds, they will be either unusually long in starting, or more likely, perish in the ground after starting, from want of sufficient strength in the young sprouts to force a passage through the soil. *Very small seeds*, such as Portulacca, Campanula, Digitalis, etc., should be merely sprinkled on the surface of the ground after making quite smooth with the back of a spade, and barely covered with finely sifted, light mellow soil, and afterwards protected from the scorching sun and heavy rains by a cloth, mat, or some green branches stuck around it.

Another great object to be considered is the soil into which the Flower Seeds are to be sown. The soil best adapted for flowering plants generally is a light, friable loam, containing a sufficient amount of sand to render it porous. A great many varieties will *live* in almost any kind of soil, except it be extremely dry, sandy, calcarous, or of a stiff, heavy character; still, to give them a fair chance for development, some little pains should be taken in adding to the soil as much as possible, what may be wanting in it. Deep digging and enriching with thoroughly decayed manure, is the least that should be done. If the weather, after sowing, should be dry, it will be necessary to water the places where the seeds are sown, with a fine watering pot, regularly but

slightly, every evening, as it is essential that the seeds, during the process of germination, should be kept constantly moist. From a neglect or oversight of this, arise most of the failures. As the process of germination is shorter or longer in the different kinds of seeds, the patience of the cultivator is often sorely tried with seeds of a slowly germinating character. The patience of a devoted florist, however, never exhausts in these manipulations, and the certainty of his final success repays him fully for the little trouble.

The best results will generally be obtained by the beginner by concentrating the crop or sowing all the varieties in one pot or bed, or a portion of ground, whatever its size may be, sufficiently large to hold all sorts placed in parallel rows at one foot apart, and this concentrated plantation can be carefully weeded, and otherwise attended to during the early stages of growth.

Afterwards, when one or two inches high, the young plants can be removed on a rainy or cloudy, damp day, to permanent positions; here the earth must be carefully prepared for their reception, being especially enriched by a previous application of very short, well-rotted stable manure or compost.

In the after culture the most important matter is to keep the clumps well thinned, for crowding will defeat all other preparations, while space, which at first seems four times too much, will serve to develop robust plants, which by their ample leafage and well developed flowers, will amaze people not familiar with the conditions necessary to successful plant culture.

LEAF MOULD IS AN EXCELLENT MATERIAL FOR SOWING FINE SEEDS IN SUCCESSFULLY.

# Choice Flower Seeds.

## PRICES:

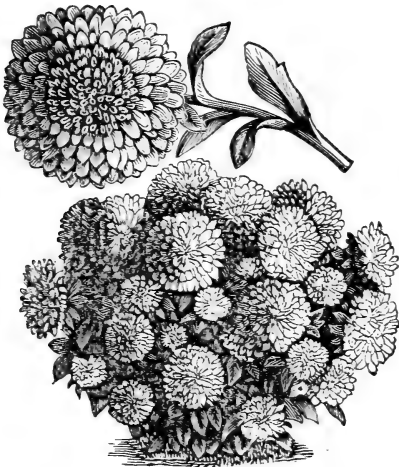
Unless specially marked, price for each paper Flower Seed, 5 cents; per dozen papers, 50 cents.

## POSTAGE PAID.

DIRECTIONS FOR SOWING ARE PRINTED ON THE DIFFERENT SEED PACKAGES.

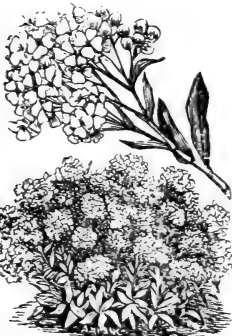
## EXPLANATION OF THE MARKS.

"a" represents "annual," lasting but one year; "p" represents "perennial," three or more years. A large number of Biennials and Perennials, if sown early, flower the first season and are marked "†"; "h" represents "hardy;" "h h" represents "half hardy;" "t" represents "tender."



Aster.

**Aster** (h h a)—Seeds are imported from Germany and saved from the finest double sorts. There is nothing finer than a bed of these in autumn. The seed should be sown under glass or in a seedbed, and transplanted into deeply dug, highly enriched soil, mulched with fine manure. Watering during a drought is absolutely essential to a healthy, vigorous growth. Plant 8x10 inches. They should be transplanted two or three times.



Alyssum.

**VICTORIA**—It produces the most beautiful and perfectly formed flowers and is also the best for pot culture. Per paper, 10c.

**QUEEN OF THE MARKET**—Early and of graceful spreading habit. Per paper, 10c.

**COMET**—The most artistic in size and beauty. Per paper, 10c.

**GERMAN MIXED ASTERS.** Per paper, 5c.

**Alyssum** (h a)—Fine bedding plant for borders, rockwork and bouquets; white fragrant flowers of easy culture and should be in every garden.

**Abronia** (h h a)—A beautiful trailer, resembling the Verbena.

**Adonis** (h a)—Very pretty deep red; self-seeder.

**Acroclinium** (hha)—One of the most beautiful everlastings, much used for winter bouquets.

**Ageratum** (h h a)—Free flowering bedding plant, in clumps or masses, used for bouquets; should be planted among Geraniums.

**Ameranthus** (h a)—Ornamental leaf plant, valuable for bedding and pot culture.

**Agrostemma** (h a)—Rose Champion—Free blooming rose, white and exceedingly pretty; should be more largely cultivated.

**Antirrhinum, or Snap Dragon**—(† h p)—This is one of the finest border perennials; plants are free flowering, succeeding in all kinds of enriched soil, and should be in all gardens.

**Brachycome** (h h a)—Swan River Daisy—A continual bloomer; should be started in hotbeds.

**Balsam** (h h a)—Most magnificent annual, producing masses of rich colors; transplanting has the tendency of making flowers double.

**Balloon Vine** (h h a)—A pretty white climber, with green fruit.

**Bartonia** (h a)—Very showy; blooms yellow; fragrant in the evening. Sow it where it is to bloom, as it will not bear transplanting.

**Calendula** (h a)—It is very showy, and makes excellent pot plants; a continuous bloomer. Don't fail to have it in your garden.

**Candytuft** (h a)—Showy annuals, for beds or edging; can be sown at any time in the house or open ground; blooms more freely if transplanted.



Brachycome.



Calendula.



Calliopsis.

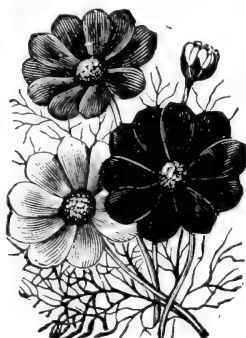
**Calliopsis, or Golden Glory** (h a) — Fine showy plant; abundant in bloom and of bright colors; fine for cut flowers.

**Catchfly** — Bright colored, free flowering annuals; need rich, light soil.

**Centranthus** — Very pretty free flowering annuals, suitable for rockeries and vases

**Centaurea Cyanus** — (h a) — Blue Corn or Blue Bottle Flowers.

**Cosmos** — (h a) — Showy autumn bloomers, literally covered with large single flowers, resembling Single Dahlias; colors range through shades of rose, purple, flesh and white; much admired. Ought to be in every garden on account of their being easily raised and making so grand a display. They are very popular.



Cosmos.

**NEW MAMMOTH** — Per paper, 10c.

**Clarkia** (h a) — Very pretty, especially the double, universally grown and admired; of easy culture.

**Canterbury Bell** (h p) — Large bell-shaped flowers; very ornamental for gardens. They bloom all season, and should be grown extensively.

**Campanula, or Cup and Saucer** — Per paper, 10c.



Canterbury Bell.

**Columbine** (h p) — They are fine, early, free flowering, hardy border plants; showy and ornamental. Every garden should have them.

**Cockscomb** (h h a) — Highly ornamental and very attractive.



—THE—

## GRAND MARGARET

SHOULD BE IN  
EVERY GARDEN.

PAPER, 10 CENTS.

**Margaret Carnation** — This grand new strain of Carnation surpasses all others for the great beauty of loveliness of its fine, large, double, rich colored flowers and incessant bloom. The advantage of having carnation that will grow from seed and afford a great profusion of bloom the whole year round can well be appreciated by all lovers of this beautiful flower. Seed sown in early spring will bloom in early autumn, and the plant will increase in size and beauty until frost. Taken up and potted they make beautiful house plants, blooming freely through the winter. The stalks grow eight to ten inches high, and are always covered with a mass of buds and bloom. It is highly prized for window ornaments, also for cut flowers. The colors range through all shades. Highly scented.

**Calampelis** († h p) — Fine for trellis.

**Canna, or Indian Shot** — Half hardy perennials; are very ornamental and much employed in sub-tropical gardening for groups and masses. With rich soil and sheltered situation they will flower freely through the summer and late in the autumn. Soak seed about twelve hours in water; sow in hot-bed and plant out when ground is warm. They are excellent pot plants for the house.

**DWARF FRENCH CROZY SORTS** — Per paper, 10c.

For Canna Roots see page 28.

**Clematis Flamula** — Virgin's Bower — A climber, 12 feet; white flowers.

**Canary Bird Flower** — A firm climber (hha).

**Cowslip** — (primula veris) — A favorite spring flower (h p) 10c.

**Cobea Scandens** († t p)—A fine rapid-growing climber, dark foliage, purple, bell-shaped flowers; will run from twenty to thirty feet in one season; start in the house. Paper, 10 cents.

**Cypress Vine**—Tender annual climber, graceful foliage, with small red and white star-shaped flowers.



Chrysanthemum.

**Chrysanthemum**—The annual Chrysanthemums are showy, free-bloomers, and should be grown in gardens in large beds, where they will show their bright colors finely. Perfectly hardy and very desirable. A multitude of fine colors and shapes. Tobacco dust will destroy the black flea if attacked.

**Datura** (h h a)—Very showy and large trumpet shaped flowers.

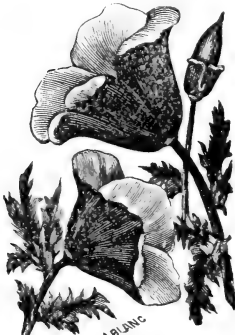
**Daisy** († h p)—The poet's favorite; very popular; very fine for edging and borders; prefer a cool shady place.

**Delphinium, or Larkspur** (h a)—Handsome for garden; of easy culture; a rich loam will produce its finest plants and flowers of various colors.

**Digitalis, or Fox Glove**—Beautiful, showy border plants, very ornamental, particularly when planted among shrubs.

**Evening Prim Rose** (h p)—Shining white flowers.

**Feverfew, or Matricaria**—Free flowering, hardy plants, succeeding in any garden soil; a fine bedding plant, or for pot culture; blooms until frost; hardy biennial; 18 inches.



Eschscholtzia.

**Eschscholtzia** (h a)—Free bloomers for borders and bedding; their bright flowers are desirable in every garden.

**Forget-Me-Not** (h h p)—Beautiful and well known, delicate flowers. Grows best in moist situations.

**Four O'Clock** (t a)—Handsome, free flowering, fragrant, blossoms variegated, striped and of various colors.

**Gaillardia** († h h p)—Showy and free bloomers; they are good bedders, very beautiful, fine for bouquets, and should be more generally cultivated.

**Godetia**—A profuse bloomer; hardy annual; beautiful colors; grown in pots; good for bedding.



GODETIA.

**Gilea** (h a)—Free bloomer; fine for beds; look well on lawn rockery, and can be planted at any season.

**Gomphrena** (h a)—Globe Amaranthus, or Bachelor's Button; an old timer; for winter bouquets.

**Gypsophila** (h p)—Fine for bouquets; free bloomers; for rockwork or shrubbery, and will grow in any soil.

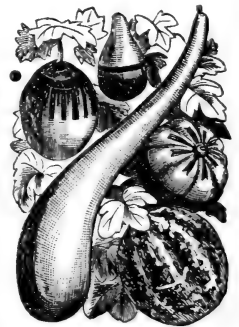
**Golden Feather** (h p)—Pyrethrum—Fine for edgings.

**Gourds** (t a)—Excellent for covering verandas or trellis work, and for training over arbors, fences, etc.; cultivated like squashes, and should be started in hot-bed or house.

**SUGAR TROUGH, OR SAP BUCKET**—Holding from four to ten gallons; strong, durable and light.

**NEST EGG GOURD**—Resembles in color, shape and size a hen's egg.

**DISHCLOTH, OR LUFFA GOURD**—A natural dishcloth, and most admirable one is furnished by the peculiar lining of this fruit, which is sponge-like, porous, very tough, elastic and durable. Many ladies prefer this dishcloth to any other. The fruit grows about two feet in length and the vine is very ornamental, producing clusters of large yellow blossoms in pleasing contrast with the silvery shaded, dark green foliage. In the north this variety should be started in a hot-bed.



GOURDS.

**Heliotrope**—Highly valued for their delightful fragrance. If sown in open warm ground it flowers in August.



**Hollyhock**—A hardy perennial, and should be in every garden. The *Ever-blooming Allegheny* and *Charter's Superb* are particularly fine and most desirable. May be sown as late as August to flower the following year.

**Hyacinth Beans** (t a) — A fine climber; plant seed where desired to bloom.

**Hibiscus, or Rose of Sharon** (h a) — Showy flower.

**Helichrysum** (h a) — Desirable for beautiful winter flowers.

**Ice Plant** (t a) — Curious dwarf trailing plants, which have the appearance of being covered with ice; invaluable for hanging baskets.

**Lobelia** (h h a) — Fine for beds, edgings, ribbon, borders and hanging baskets; of easy culture.

**Marigold** (h a) — Highly ornamental in the fall. Dwarf varieties are useful for bedding. **GRAND SULPHUR**—Large double flowers.

**Mignonette** (h a) — A well known favorite; highly scented and flowering freely. If wanted in winter, seeds should be sown in July.

**Moonflower** (t a) — *Ipomœa Noctiflora*, or *Grandiflora*, *Alba*). This is a variety of which plants have been so extensively advertised the past few years. For covering walls or porches or trellises, particularly the latter, when over paths, their beautiful pure white moonlike flowers (which are often six inches in diameter) are seen to great advantage. It is an exceedingly rapid grower. In rich ground, in a sunny situation the plants readily grow 25 feet high in a season. Soak seed for twenty-four hours. Scrape off the pointed end with a pen-knife, before planting. — Paper, 10c.



Morning Glory.

#### **Morning Glories**

The surpassing charm of this **JAPANESE MORNING GLORY**, entrancing beauty and gigantic size of the flowers; they measure from four to six inches across. The colors of the flowers, shadings and markings are limitless. — Paper, 10c.

**TALL MORNING GLORY**—The well-known old-fashioned climber; it is easy

to grow and should be planted early.

**DWARF MORNING GLORY**—For growing in clumps or beds; well adapted for rockeries and hanging baskets.

**Nicotina**—Decorative and fragrant.

**Nolana**—A showy border plant; a fine trailer.

**Nasturtium, or Kapuziner Cresse** (h a) — Beautiful bedding plants. Planted in poor soil, they flower profusely and for a long time.



Nasturtium.

The colors of flowers can not be excelled. Dwarf varieties should be planted so that they will contrast with white and blue flowers. We have a large variety of the choicest sorts. The Dwarf are among the most useful and beautiful annuals for bedding and massing, while the tall sorts

are admirably adapted for rock work, covering trellises and rustic work. Choice mixed, 10c per ounce; in separate colors, 15c per ounce.

**Maurandya** (t p) — A beautiful climber for training on trellises, veranda, etc.; abundant bloomer. Paper, 10c.

**Mourning Bride, or Scabiosa** (h a) — A showy border plant; fine flowers; of many colors.

**Mimulus**—Monkey-flower (*Maskenblume*). Extremely handsome flower of brilliant colors; fine for flowering in pots or baskets. Paper, 10c.

**Musk Plant**—A well known, tender, biennial plant, of musky odor. Paper, 10c.

**Nemophila**—(h a) — Dwarf growing; of easy cultivation. fine delicate flowers; are good for pots, edgings, rockeries or beds.

**Nierembergia** (h p) — Handsome flowers; fine for hanging baskets and edgings.

**Nigella, or Love in a Mist** (h a) — Curious and ornamental; fennel-shaped leaves, easily grown and hardy.

**Pink** (**DIANTHUS**) — Beautiful and ornamental genus; for beauty and sweetness contains some of the most prized flowers we possess. The leaves of the hardy perennials are green all winter. Many can be grown in pots and kept in the house. No garden should be without some of the varieties of the *Dianthus* family, which for color and fragrance can not be surpassed. **Pink's** succeed well in any fairly rich soil, but when the production of large flowers is aimed at a richer soil should be prepared.



Pink.

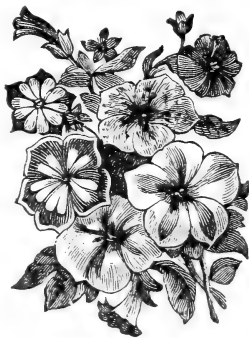
**Pansies**—The Pansy is a popular flower with both florist and amateurs, giving abundance of bloom until frost, enduring our hard winters with safety when covered, and greeting us in the earliest spring with a profusion of bright blossoms. It will flower better in the middle of the summer if planted where it



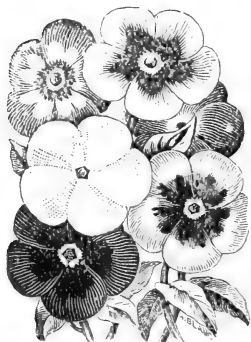
Pansies.

is somewhat shaded from the sun and furnished with a good supply of water, but in almost any situation will give fine flowers in spring and autumn. Pansy seed may be sown in the hot-bed or open ground; if sown in the spring, get in as early as possible, so as to have the plants in bloom during the early rains. Seeds sown in a cool place in June or July and watered until up will produce fall flowering plants; if sown in October they will flower in early spring. To have good flowers the plants should be vigorous and make a rapid growth. Young plants give the largest flowers. Pansy seed is a specialty with us and is the best that can be had. Giant Trimardeau and Cassiers; per paper, 10c.

**Petunia** (h h p)—Highly ornamental; easy in cultivating; beautiful flowers of all colors, continuing to bloom until frost. The double flowering, per paper, 10c.



Petunia.



Phlox Drummondii.

**Phlox Drummondii** (h a)—A bed of these will be highly prized for unrivaled richness and brilliancy of color and profusion of bloom. By making several sowings they will bloom until frost. Also fine for pot culture. The Star of Quedlinburg, per paper, 10c.

**Perilla** (h h a)—Ornamental leaved; for ribbon gardening and beds.



Poppy.

**Poppy**—Very showy and free flowering. For beds or borders with a background of green they are beautiful; admirable for naturalizing in woody spots; they are also fine for cut flower use; should be kept from forming seed to secure continuous flowering. They are easily cultivated,

cultivated, the most suitable soil being sandy loam.

**GOLDEN GATE**—Fine single.

**CARNATION FLOWERED**—Large, double.

**PEONY FLOWERED**—Large, very double.

**RANUNCULUS**—Small double flowers.

**SCARLET**—Single field poppy.

**DANEBROG**—single flowers of a brilliant scarlet, bearing a silvery white spot on each petal.

**THE SHIRLEY**—Is a magnificent variety, unsurpassed for beauty and color.

**TULIP POPPY**—Resembling the Scarlet Duc Van Thol Tulip. Single.

**CARDINAL**—Compact, of robust habit and brilliantly variegated in scarlet and white.

**AMERICAN FLAG**—Double red and white.

**Portulacca**—Should be in every garden. There is scarcely any flower in cultivation that makes such a dazzling display of beauty as a bed of many-hued, highly-colored Moss Flowers. They are in bloom from about the 1st of July until killed by the frost in autumn. Plant in open ground after it has become warm in light sandy soil, and in a dry situation. After they appear, withhold water, and if the bed has a full exposure to the sun the ground will be covered with the plants, and the effect will be beautiful. Tender annual, nine inches high. They will stand any amount of dry weather; The double varieties of this plant are most beautiful. The blossoms are about one and a half inches across, perfectly double and of many colors. Not all the plants will be double, but the single ones can be pulled out.



Double Portulacca.

Double Portulacca, per paper, 10c.



**Passion Flower**

(h h p)—A most interesting and beautiful climber, requires a sunny position in open ground. Roots are hardy; although the vines die down to the ground in winter, but come up luxuriantly in the spring.



Passion Flower.

**Ricinus, or Castor Oil Beans** (h h a)—

Very ornamental and quite tropical in appearance, much used for centre plants of flower beds. An entirely new variety is the Zanzibariansis, which surpasses in size and beauty all varieties hereto known. The leaves are light green with whitish ribs and measure from two to two and one-half feet across; for large groups or single specimens it is an exceedingly striking and effective ornamental foliage plant.

**Salpiglossis**—These annuals have very showy, large, funnel-shaped flowers, mottled, veined and self-colored; fine for beds. They require a rich soil, and will well repay liberal treatment.

**Salvia Splendens** (t a)—Well known for their brilliant color, and no plants can be finer for bedding; beautiful spikes of scarlet flowers.

**Schizanthus** (h h a)—Elegant and blooming very freely; large beautiful flowers of many colors; fine for bedding.

**Sensitive Plant** (t a)—A very curious and interesting plant; leaves close when touched or shaken.

**Stocks** (h h a)—German Ten Week Levkoyen. The finest German varieties, unsurpassed for brilliancy, variety of color and fragrance. Transplanting several times in the early stages of growth tends to give them a more compact and dwarf habit. In this latitude Stocks should be sown from the middle of March to the first part of May, on a spent hotbed, or in pots or shallow boxes, in a frame or in the house; and when an inch high, they should be transplanted into fine soil, which should be spread over a discarded hotbed, whence they can be bedded out when three or four inches high; this should be done before or during showery weather

**Tassel Flower, or Cacialia**—A pretty annual, with neat flower.

**SWEET PEAS.**

**Our Collection This Year Cannot be Excelled by any House.**



Sweet Peas.

Nothing can be finer than a hedge of Sweet Peas. The variety of color and the sweet-scented flowers make them desirable for every garden. To bloom early, seed should be planted very early in spring. For a succession some should be planted every few weeks.

Sweet Peas succeed best in a deep, rich soil. The most approved method of cultivation is to sow in a trench five or six inches deep, covering them at first with *only one inch* of soil; then as the plants grow up, fill in the earth about them *one inch at a time*. After the plants are well grown up they should be watered copiously, and bone meal worked into the soil about the roots is recommended. Proper trellis or other support should be provided.

**Below Find the Names of Only a Few of the Leading Varieties.**

BOREATTON—Crimson Purple; very dark, very large flowers.

BLANCH BURPEE—Pure White.

EMILY HENDERSON—Best White.

GOLDEN GLEAM—Yellow.

PRIMA DONNA—Pink Shaded.

KATHARINE TRACEY—Brilliant Pink.

MARS—Crimson.

NEW COUNTESS—Mauve.

CAPTAIN BLUE—Blue.

SHAHSADA—Dark Maroon.

BLANCH FERRY—Deep Rose Pink.

MRS. JOS. CHAMBERLAIN—White and Rose Striped.

And many more NEW AND BEAUTIFUL varieties.

(All the above, 5c per paper or 10c per ounce. Special prices by the pound.)

**Sweet William** (h p)—A bed of these can hardly be surpassed in color and habit; producing large heads of beautiful colored flowers in great profusion; very effective for bedding. Admired by all.



Whitlavia.

**Thunbergia**(h h a)  
—Very ornamental climber, of rapid growth and an abundant bloomer; flowers white, buff and orange.

**Verbena**—All of this genus are extremely beautiful and ornamental, flowering profusely, either as pot plants or in the garden. Our seeds are

saved from fine named varieties, and will produce healthy plants, with flowers of fine colors.

Plants raised from seed are much more vigorous than those grown from cuttings, and continue strong and healthy until destroyed by frost. They flower perfectly well from seed sown in spring. If started in the house in pots, during the winter, they will bloom sooner, but if sown in open ground in May, they will bloom in August. Each plant will require a space of one foot. Tender perennial trailer, one foot high.

**Violets** (t p)—Sweet-scented; possess great beauty and fragrance; seed takes a long time to germinate. Per paper, 10c.

**Virginia Stock** (h a)—Early flowering and fine.

**Wallflower** (t p)—Favorite, sweet-scented, double flowers, of fine colors; useful as spring bedders. Per paper, 10c.

**Whitlavia**—Pretty annuals, with beautiful white and blue bell-shaped flowers; free flowering.

**Xeranthemum**—Showy, everlasting, retain their color and form longest of all; much prized for winter bouquets.

**Zinnia** (h h a)—Fine bedding and border plants, blooming long and abundantly. Beds of these are greatly admired. The colors are varied and bright, and plants easily grown. It should be more extensively cultivated, as the varieties have been much improved of late. The collections offered will be found very choice, and are sure to give satisfaction. Zinnias succeed best in a rich, deep loamy soil, and in a sunny situation.



Zinnias.

### Double Dahlias—

The Dahlia is the grandest autumn flower we have. Nothing is its equal in any respect in September and October. It is in its glory when everything else is faded or fading, and surrenders only to the King Frost. Plant tubers when the season becomes warm, covering the neck three inches.

If many shoots start, thin them out.

As the Dahlia is a fall flower, there is no need of planting before about the beginning of May, or even later.

**Finest Collection**—in all colors, tall and dwarf, per dozen, \$1.00; each, 10c.

### Flowers for Constant and Brilliant Show.

All of the below named Flowers, marked with a \*, are suitable for Bouquets.

*Abronia.	*Adonis.	*Asters.
*Alyssum.	*Balsam.	*Candytuft.
*Canterbury Bell.	*Columbine.	Cockscomb.
*Gaillardia.	*Chrysanthemum.	Four o'clock.
*Mourning Bride.	*Mignonette.	*Larkspur.
*Pinks.	*Pansy.	*Foxglove.
Snapdragon.	Poppy.	Petunia.
Nasturtium.	*Stocks.	Salpiglossis.
	*Zinnias.	Calendula.

### FLOWERS FOR MASS OF COLORS.

**WHITE**—Sweet Alyssum, Candytuft, \*Cosmos, Daisy.

**BLUE**—Ageratum, Forget-Me-Not, \*Cornflower, \*Gilia, Nemophila, \*Lobelia, Whitlavia, Larkspur, Nolana.

**SHADES OF RED**—Pinks, Portulacca, Phlox, Petunia, Stocks, Zinnia, Nasturtium.

**YELLOW**—\*Calliopsis, Bartonia, \*Calendula, Portulacca, Eschscholtzia, Marigold, \*Tasselflower, Cannas.

### FOR SUMMER HEDGE AND FOLIAGE.

Amaranthus.	Perilla.	Castor Beans.
Sweet Peas.	Cannas.	Zinnia.
Hollyhock.	Euphorbia.	

### CLIMBERS.

Balloon Vine.	Nasturtium.	Passion Flower.
Hyacinth Beans.	Callempepis.	Morning Glory.
Balsam Apple.	Maurandya.	Japan Hops.
Thunbergia.	Cobea Scandens.	Moonflower.
Canary.	Sweet Pea.	Cypress.
	Bryonopsis.	Gourds.

### ROCKERY.

Alyssum.	Linum.	Godetia.
Nemophila.	Catchfly.	Gilia.
Linaria.	Gypsophelia.	Leptosiphon.

### HANGING BASKETS.

Clarkia.	Dwarf Nasturtium.	Lobelia.
Abronia.		Dwarf Morning Glory.
Nierembergia.	Ice Plant.	

### EVERLASTING.

Acroclinium.	Bachelor's Button.
Xeranthemum.	Ornamental Grasses.



Dahlias.

# —SPRING BULBS—

## GLADIOLUS BULBS IN MIXTURES.



Gladioli.

This magnificent family contains hundreds of varieties, comprising all imaginable colors, shades and variations. For cutting they are invaluable, the flowers lasting in water a week. They can be planted at any time from May to June 15th, and never fail to flower the same season; they grow in any garden soil, commence blooming in July, and by successive plantings every two weeks, can be had in flower the entire season.

	Per doz.	Per 100
Yellow and Lemoine's .....	75c	\$4 00
White and Light Colored .....	60c	4 00
Striped Variegated Varieties ....	50c	3 00

If by mail, add 10c per doz. to prepay postage.

## ELEPHANT EAR—*Caladium Esculentum*.

The *Caladium* is one of the handsomest of the ornamental leaved plants. There is nothing as good as the *Caladium Esculentum* for a grand bed of foliage in the garden or in the lawn.

Good roots, each, 10c; per dozen, \$1.00.

## TUBEROSES—DOUBLE.

The Tuberose is a semi-tropical bulb and as it requires a warm and sunny situation, it should not be planted outdoors until May. In cold latitudes, obtain tubers early, plant them in pots or boxes of earth and keep them in a warm place in the house; when warm weather, transplant to the garden. Previous to potting, every little side bulb should be broken off and the old roots cut back close to the parent bulb, as they are practically of no value. Water should be given sparingly at first until they begin to form leaves, when the quantity can be increased. When leaves are about six inches long and begin to droop over they should be cut back half their length so as to force a quicker development of the flower spike.



A. BLANC

Tuberose.

Tall Double—Extra size bulbs.....50c 5c

Pearl—Grows only twenty to twenty-four inches high; flowers are imbricated like a double Camilla.....50c 5c

Variegated Leaved—Flowers single, but very large and of exquisite fragrance.....50c 5c



Dwarf French Cannas.

## CANNAS.

But few plants are more easily managed than the *Canna* when propagation and cultivation are understood. The tubers will grow almost anywhere and under nearly all conditions, but prefer a very rich soil with plenty of moisture. The tubers should be planted singly, at least two feet apart; at this distance, in soil suited to them, they will form a complete mass.

The new French varieties give the best satisfaction; the large size and brilliant coloring of the flowers, embracing every shade of color, beautifully marked, mottled and spotted; dwarf compact habit of growth, and luxuriant foliage. These improvements are so decided as to make of the French Cannas one of the grandest novelties of the day. Without any exception there is no flower plant that makes a more grand, a more continuous show through summer and autumn and less expensive than French Cannas.

We have an especially good and large assortment of the latest varieties to offer this season. Below find a few of the leading sorts; no better and cheaper to be had anywhere.

**Burbank, Austria, Italica**—They are all large orchid flowered varieties, of latest introduction and grow from five to seven feet in height.

**Florence Vaughan, Morning Star, Queen Charlotte**—Color of flowers yellow, some spotted or striped with crimson.

**Chas. Henderson, \*J. C. Vaughan, Mad. Crozy**—Flowers ranging from orange to bright carmine in color.

**\*Egandale, Alphons Bouvier, Shenandoah**—Flowers dark currant red color.

10c each, \$1.00 per Dozen.

\*Bronze or dark red foliage.

# INSECTICIDES.

## HAMMOND'S SLUG-SHOT.



Its efficacy is conceded by all who make thorough tests.

It is an infallible insecticide; it is not poisonous; kills Potato Bugs, Cucumber, Melon and Squash Bugs; Currant, Cabbage, Tomato and Cut-Worms; Rose and Raspberry Slugs, and a good many other insects injurious to plants, shrubbery, etc. For further information send for a little pamphlet on Slug-Shot.—Price per 10 lbs., 50c; per 100 lbs., \$4.00.

### PARIS GREEN.

Is sure to kill Potato Bugs; dissolve one teaspoonful in four gallons of water. Absolutely pure.—Per lb., 25c.

### POSTITE.

Death to all kinds of Insects. Mildew and Blackrot on grapes and vegetables.—Package of 2 lbs., 25c.

### LONDON PURPLE.

As destructive to insects as Paris Green, and is more easily dissolved.—Per lb., 25c.

### HELLEBORE.

Destroys Rose Slugs and Currant Worms. A few applications only are necessary. Spray in early spring when leaves make their appearance.—Per lb., 25c.

### POWDERED SULPHUR.

Valuable for protecting against mildew in grapes and roses.—Per lb., 10c.

The above six articles may be effectually applied in dry state by our insect exterminator. See page 31.

### WHALE OIL SOAP.

For washing trees and destroying all insects on the bark. Mix at the rate of one pound to four gallons of water. It will rid cabbage, rose bushes, peach trees, etc., of the aphides that so often infest them.—Per lb., 20c.

### PERMOL KEROSENE SOAP.

Is found the most convenient and most satisfactory preparation ever made. It contains 25 per cent of kerosene oil.—See page 3. Per lb., 25c.

### Fir Tree Oil Soap.

It destroys all plant insects without injuring the plant. Mix at the rate of one ounce to a gallon of water and apply with a syringe.—Per ½-lb. cans, 25c.

### Aphis Punk.

A special preparation of nicotine for the extermination of Green and Black Fly, etc., in greenhouses and conservatories.—Per box, 60c.

# FERTILIZERS.

Commercial Fertilizers are sure to come into more general use as fast as they are tried. Their quick and direct action commend them to the gardener. A customer who once buys, almost invariably continues its use. The enormous quantities sold annually give the best evidence of its utility and value to the GARDENER and FARMER. The quantity to use per acre depends on the crop to be cultivated and condition of the soil.

*We are Agents of the Different Celebrated "Horse-Shoe Brands."*

### Pure Ground Bone.

This article we guarantee to be strictly genuine and an excellent fertilizer for grass land, as well as other crops not requiring potash. It does not, however, give as quick results as phosphate. Harrow or drill in, using 400 or 500 pounds per acre.—Price per bag of 200 lbs., \$4.50; 100 lbs., \$2.50; 25 lbs., \$1.00.

### Pure Dissolved Bone Phosphate.

Stands without a rival as the largest crop producer at the smallest outlay. If applied with a drill, 400 lbs. will give excellent results the same season; if applied broadcast, use 500 lbs.—Price per bag of 200 lbs., \$3.75.

### Corn and Wheat Grower.

The requirements of the crops named are fully met by this high grade article, and as it contains in a promptly available form the elements required to produce perfect grain, it will be found superior in every way. Drill in at seeding time 200 lbs., and broadcast 300 lbs. per acre.—Price per bag of 200 lbs., \$4.00.

### Our Lawn Fertilizer.

Never fails to induce a rapid and rich green growth and can be applied either in the spring or fall, as a top dressing. Stable dressing for lawns is objectionable in appearance, odor, weed seed and cost. Our lawn fertilizer overcomes all this. Ten lbs. are sufficient to go over an area of 15 by 20 or 300 square feet.—Price, 10 lbs. for 40c; 25 lbs. for 75c.

### Nitrate of Soda.

Valuable for the nitrogen it contains; it is a stimulant used in addition with other fertilizers and hastens the maturity of crops fully two weeks. Being extremely soluble it should not be used before the plants are above ground. Mix with wood ashes and sow broadcast 100 pounds of Nitrate of Soda per acre.—Price per 100 lbs., \$4.00; 25 lbs., \$1.25.

### Plant Food.

An excellent fertilizer for house plants, clean to handle, without odor; produces rich green growth and profusion of flowers, if used according to directions, which accompany each package.

Florist Plant Food . . . . . per 25 lbs. \$1.00  
Florist Plant Food . . . . . per package, 15

## COLLECTION OF VEGETABLE SEEDS.

The following sorts can be replaced by others of the same value if specially wished. PAPERS ARE WELL FILLED WITH HIGH CLASS SEED.

### Collection For One Dollar—One Package Each.

FREE BY MAIL.

BEANS—Dwarf or Pole.  
CABBAGE—Early Wakefield.  
CABBAGE—Late Flat Dutch.  
CARROTS—Early Horn.  
CELERY—Boston Market.  
CELERIAC—Large Erfurt.  
CORN SALAD—Large Leaved.  
CUCUMBER—Early Spine.  
ENDIVE—Oreen Curled.  
KOHRLABI—Early Vienna.  
LEEK—Large.  
LETTUCE—Curled Simpson.  
LETTUCE—Improved Hanson.  
MELONS—Rocky Ford.  
ONIONS—Red Wethersfield.  
ONIONS—White Globe.  
PEAS—American Wonder.  
PEAS—First and Best.  
RADISH—French Scarlet.  
RADISH—White Strassburg.  
BEETS—Early Egyptian.  
SPINACH—Bloomsdale.  
TOMATO—Livingston's Perfection.  
TURNIP—Early Milan.

### Collection of Flower Seeds for One Dollar.

ONE PACKAGE EACH.

Alyssum, Sweet.	Asters.
Balsams.	Candytuft.
Cornflowers.	Forget-Me-Not.
Gaillardia.	Larkspur.
Lobelia.	Marigold.
Mignonette.	Musk Plant.
Nasturtium.	Pansies.
Petunia.	Phlox.
Pinks.	Poppy.
Portulaca.	Ricinus.
Stocks, Levkoyen.	Sweet Peas.
Verbenas.	Zinnias.

Twelve Papers of above for 50c, Free by Mail.

**Fern Balls.**—They are more handsome than Palms, of easy growth, and may be suspended from the ceiling or chandelier, or over the dining table. Price 50c each.

### MAKING A HOT-BED.

To prepare a hot-bed, a quantity of stable manure should be well shaken up in a heap, about the beginning or middle of February; after remaining three days, it should again be shaken up and turned over again at another interval of three days. Let the manure remain for three or four days more in a heap, and then form the bed of any dimensions that may be requisite, according to size or number of frames to be used, making the bed about a foot wider than the frame all around. The bed, when made, should not be less than three feet high; the situation for it should be dry underneath, sheltered from the north as much as possible, and fully exposed to the sun. In making up beds, beat the manure well down with the fork, so the manure is two feet deep. Place about eight inches of light, rich soil on top. After the bed has stood with lights on for a few days, raise the sash a few inches to let the rank heat escape, then sow the seed of Cabbage, Tomatoes, Cauliflower, Egg Plant, Celery, Lettuce, Radish, etc., etc. When the plants make their appearance above ground, give some air, day and night in moderate weather, by raising the lights two or three inches—and as the heat of the bed diminishes, increase the supply of air to prevent the plants being drawn up. In severe weather the frame and lights should be covered at night with mats or boards. In frost or cold weather the water should be made milkwarm before it is used; this is important.

### PLANTS AND ROOTS.

(Prices on Application.)

**Strawberry Plants**—In season we keep a limited stock of the leading varieties; but if large quantities, or certain new rare sorts are wanted, we would invite timely correspondence.

**Sweet Potato Plants**—As we have our own beds where they are grown, we can supply the freshest stock in any variety at short notice; also,

**Tomato Plants,  
Cabbage Plants,  
Celery Plants,  
Asparagus,**

**Cauliflower Plants,  
Egg Plants,  
Kohlrabi Plants,  
Rhubarb Roots.**

**Moss Sphagnum**—for florists; per bbl., \$1 25

**Raffia**—For tying plants and making fine baskets..... per lb., 25c

### DR. JOSEPH HAAS'

### Hog and Poultry Remedy.

Endorsed and recommended by the Leading Swine Breeders of the United States and Europe.

Prevents Disease, Arrests Disease, Stops Cough,  
Destroys Worms, Increases Flesh, Hastens Maturity, Saves Feed.

### PRATT'S FOOD FOR POULTRY AND STOCK.

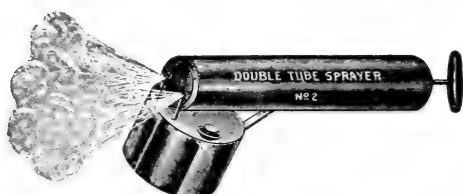
### WILBUR'S POULTRY FOOD.

Ground Oyster Shells,  
Granulated Bone,  
Beef Meal, and other  
Poultry Supplies

### Fruit Box Material and Baskets.

Every Description.

Write for Prices.



## INSECT EXTERMINATOR.

Kills, exterminates and drives away every living thing obnoxious to your animals, or your plants, shrubs, etc., by using the insecticides described on page 3. A sprayer, nowadays, is just as much needed as any other tool on a farm or garden. It is a handy instrument for many purposes. No household should be without it. Double Tube No. 2 copper, \$1; Single Tube No. 1 Tin painted, 50c.



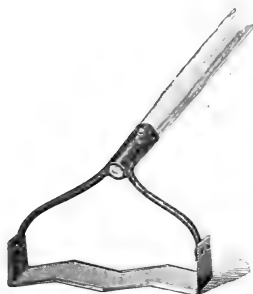
## HOD-BED COVERS, FROST-PROOF.

Made expressly for winter covering of the beds and cold frames. INDESTRUCTIBLE, CHEAP and WARM. Will not harbor mice or vermin. Easily handled. Dry out quickly after rain. Cost less than old-fashioned straw mats and entirely take their place.—Price, 6x6, \$1.00 to \$1.50, according to quality.



## FROST'S ANTI-RUST.

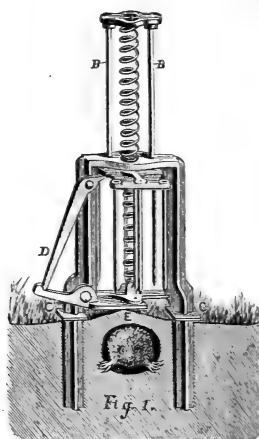
Will prevent rust anywhere. Use it on your plows, tools, stovepipes, guns, bicycles—any metal, bright or plain. Absolutely safe from rust. Every can sold with a guarantee.—Price per box, 25c.



## THE "RAPID EASY" (Lipe's Patent)

## GARDEN and FIELD WEEDER

A new hand implement, which for speed and easy work at killing weeds and loosening the soil eclipses everything of the kind, or for the purpose that has ever been offered. Price, 65c.



## THE OLMSTED IMPROVED

## RELIABLE MOLE TRAP.

If you have moles in your garden, lawn or field, do not fail in getting this trap. It will surely catch your moles and save you a great deal of annoyance.—Each, \$1.25.

REDDICK'S IMPROVED.....each, \$0 90  
OUT O' SIGHT ..... " 1 00



Lang's Hand Weeder.....	\$0 25
Bellows—For blowing Insect Powder ...	1 00
Best Steel Garden Dibbers .....	35
Corn Shellers—The Black Hawk, guaranteed to give satisfaction.....	2 50
For Pop Corn .....	1 50
Garden Reels and 100 ft. best solid Braided Hemp Garden Line, complete... ..	1 50
Pruning Shears—Levin's, the most powerful Hand Shear extant, cuts $\frac{1}{2}$ -inch dry oak .....	1 00
Rubber Sprinklers—Scollay's No. 1....	85
Scollay's No. 2.....	70
Scollay's No. 3.....	45
Lenox Patent.....	30
Extra Rubber Bulbs.....	15
Trowels—Best solid steel, very strong, 30—50 Ordinary.....	10—25
Weeders—Hand—Excelsior .....	20
Lang's .....	25
Seeders—Fiddlebow .....	1 75
Crank.....	1 00
Lightning.....	1 00

## THE LIGHTNING SEED SOWER

Guaranteed to sow 60 acres per day (either horseback or on foot) of Clover, Timothy, Millet, Flax, etc. Will be sent to any Post Office \$1.25 on receipt of.....

If not satisfactory, money refunded. Circulars free. Agents wanted. W. J. BUSS, St., Golden, Ill.

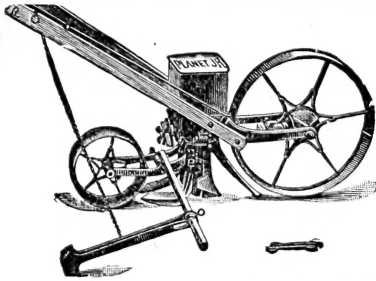
Reference: Golden Bank.





# Garden Tools

Any person cultivating Vegetables for Market can not afford to be without Labor-Saving Tools in order to make it profitable.



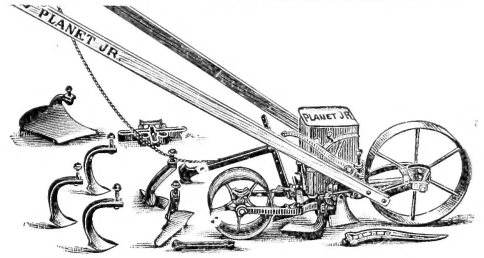
**"Planet Jr." No. 4, Hill-Dropping Seed Drill, Hoe, Cultivator, Rake and Plow.**—Combines conveniently in a single garden implement a capital hill-dropping and continuous-row seeder, with the most perfect and complete single-wheel hoe, cultivator, rake and plow that the most practical can desire. Designed by a practical man, it is light, compact, durable and easy running and does all its great variety of work with a thoroughness and perfection that has never before been attempted, much less equaled. Price, complete, \$9.50; as a drill only, \$7.50.

## "PLANET JR." Tools. NOTHING IS EQUAL TO THEM.

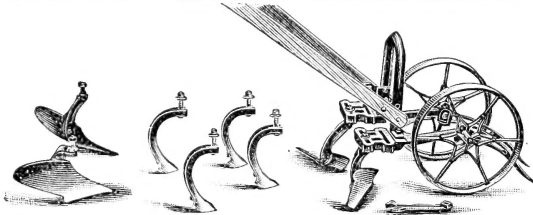
### New "Planet Jr." No. 3 Single Wheel Hill-Dropping Seed Drill.

(Sows either in Hills or Continuous Rows.)

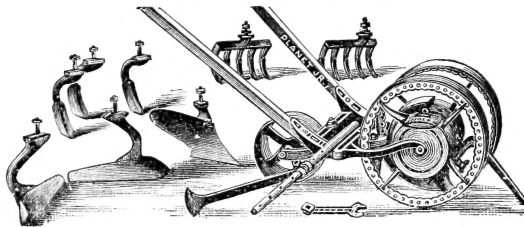
This seed drill has been offered widely by the manufacturers of the celebrated "Planet Jr." goods. It has been thoroughly tested by careful gardeners and nurserymen during several seasons, and the manufacturers guarantee it to give entire satisfaction. Price, \$10.00.



The **"Planet Jr." No. 2 Drill**—Holds two and one-half quarts. Is the old reliable drill, equally as good as the new, except that it does not drop in hills. Price, \$6.50.



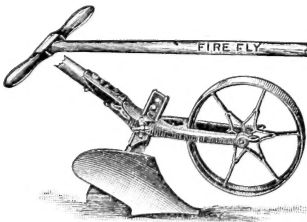
"Planet Jr." Double-Wheel Hoe.



"Planet Jr." Combined Drill.

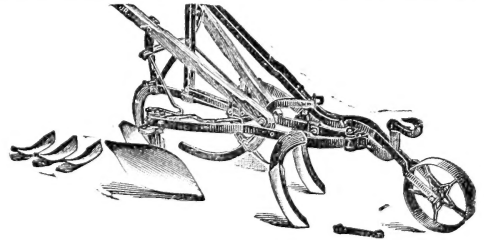
The **"Planet Jr." Combined Drill, Wheel Hoe, Cultivator and Plow No. 1.**—This most popular tool is suitable for either the farm or garden. As a drill it is exactly similar and equal to the No. 2, except in size. It holds one quart. As a plow, it opens furrows, covers them, hills, plows to and from, etc. As a hoe it works safely and closely to and from both sides of the row at once, when plants are small; between rows as plants grow larger, working all rows from 8 to 16 inches wide at one passage. Price, \$8.50.

**"Planet Jr." Double-Wheel Hoe, Cultivator, Rake and Plow Combined, No. 12.**—Has the invaluable feature of tending both sides of the row at once. The wheels can be set four, seven or ten inches apart. It has a pair of plows, two pairs of cultivator teeth and a pair of leaf lifters, making it capable of every variety of gardener's work. Price, \$6.00.



The **Fire-Fly Wheel Garden Plow.**—This little plow is very useful in opening furrows, covering seed and hilling growing plants. Price, \$2.25.

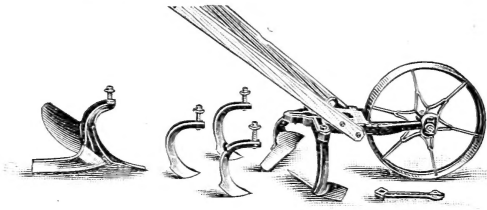
Send for Illustrated **"PLANET JR."** Book.  
FREE on Application.



The **"Planet Jr." Horse Hoe, No. 8.**—Has the patent lever expander to open and shut the sides, and also a lever close at hand for raising and lowering the wheel, thus controlling the depth of working. The side levers are also changed in pattern and are now reversible and have patent plow share points, which can be sharpened. Price, complete with lever expander and lever wheel, \$7.50; No. 7, \$7.00.

# Planet Jr. Single Wheel Hoe, Cultivator and Plow.

Price, \$4.75.

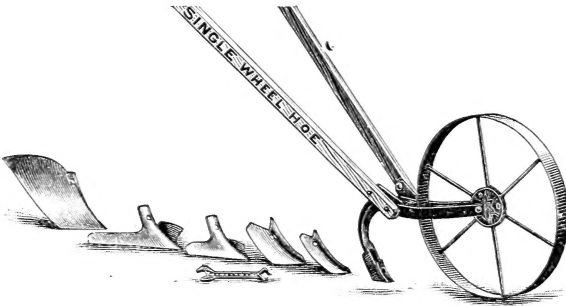
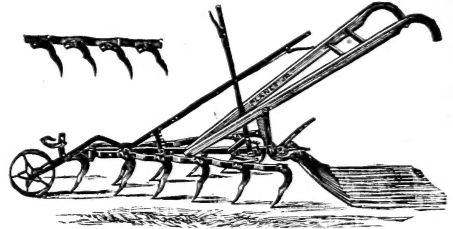


No. 17.—Single Wheel Hoe.—Greatly improved. It is the latest and best in every particular, and we recommend it as superior in many respects to any of the old styles. This is a cheap Cultivator for the money and should be used more extensively.

## THE PLANET JR.

Twelve-Tooth Harrow and Pulverizer COMBINED.

A new tool for fine cultivation, deep or shallow. It has a new lever wheel and lever expander. Price, plain, \$5.00; with wheel, \$6.00; complete, \$7.50.



## "Farmer's" No. 19.

High Single Wheel Hoe, Cultivator and Plow. Price, \$3.50.

This new and attractive implement is especially designed for the Farmer's garden work, though it offers to every one with either field or garden a cheap and effective tool for all hand wheel hoe operations. The tools are as follows: A large garden plow, 10-inch sweep, 6-inch sweep, 4-inch cultivator tooth and a 2-inch tooth. The great variety and fine shape and quality of the tools make the implement valuable for many kinds of work. It is strong, well made and can be quickly set so as to be useful, whether in the hands of a man or woman, boy or girl. Strength, variety of tools and cheapness are its great virtues.

**IRON AGE CULTIVATOR HARROW.**—This is a new and valuable Harrow. The teeth can be changed so that it can be made a Perfect Smoothing Harrow. It Pulverizes thoroughly and leaves the ground in the best possible condition. Price, \$4.50.

## THE "EASY."

Handy, simple and easy running SINGLE WHEEL HAND GARDEN PLOW. Price, \$4.00.

## Single and Double Wheel "GEM" Hand Cultivators.

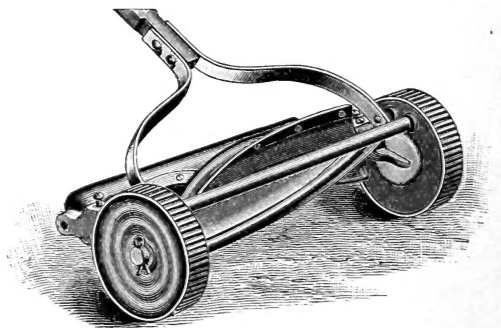
These are, without doubt, very popular and practical Hand Cultivators. They are made of the best material and give entire satisfaction.

Price, Single Wheel.....\$4 50  
" Single and Double Wheel Combined.. 5 50

## The Leader Lawn Mower.

The superior mechanical construction of this Mower; its simplicity, durability and easy operation, entitle it to the name of "THE LEADER."

Price—12-inch.....\$3 00  
" 14-inch.....4 00  
" 16-inch.....5 00



**Breed's Weeder.**—All who have used it claim it is the best Weeder made. Price and particulars on application.

**Garden King Rake.**—An automatic, labor-saving implement. Price, 75 cents.

**Acme Hand Potato Planter.**—Simple, durable, practical; works perfectly in clay, gravel or sandy soil, sod or new ground. Plants at any and uniform depth in moist soil. Makes holes, drops and covers at one operation. One man plants two acres a day. Price, \$1.25

# Useful Reference Table.

This Table gives the Amount of Pure Clean Seed ONLY and which Every Farmer ought to buy. Good Fresh Seed will Grow and is Always the CHEAPEST.

	lbs. to Bushel	lbs. to Acre		lbs. to Bushel	lbs. to Acre
Clover, Red .....	60	8—10	Southern Cow Pea .....	60	60—90
“ Alsike .....	60	4—6	Soja Beans .....	60	60—90
“ Alfalfa .....	60	15—20	Canada Field Peas .....	60	60—90
“ White Dutch .....	60	4—6	Kaffir Corn, broad cast .....	50	50
Timothy .....	45	10—15	Sorghum, broad cast .....	50	50
Millet and Hungarian .....	50	25—35	Buckwheat .....	50	15—20
Red Top, free from chaff .....	40	10—15	Dwarf Essex Rape .....	50	4—7
Blue Grass, free from chaff .....	24	24—50	Grass Mixture .....	—	20—25
Orchard Grass .....	14	20—25	Flax Seed .....	56	50
White Beans .....	60	15—30	Sweet Corn in Hills .....		8 quarts

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If you wish anything of real merit in  
**SEEDS, BULBS, ETC.**

— WE HAVE IT —



To Make Your.....

*Flower Garden*

**ATTRACTIVE AND BEAUTIFUL**

Do not Fail to Include the Following Flower Seeds and Bulbs: . . .

**German Asters,  
Calendula,  
Cosmos,  
Four O'clock,  
Gaillardia,  
Marigold,**

**Japan Morning Glory,  
Nasturtium,  
Petunia,  
Phlox,  
Pansy,  
Poppy,**

**Sweet Peas,  
Zinnias,  
Tuberoses,  
Gladiolus,  
Cannas, Etc.**

— OUR —  
**Select Lawn Grass Seed**

IS THE BEST. NOTHING BETTER.

No matter what you pay or  
by whom it is offered. . . .

**PRICE, 20c PER POUND.**